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STIC Database Tracking Number: 94446

TO: Christine Saoud

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Art Unit: 1647

May 30, 2003

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Case Serial Number: 901938

From: P. Sheppard

Location: CM1-1E03

Phone: (703) 308-4499

sheppard@uspto.gov

Search Notes

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From: Saoud, Christine
Sent: Tuesday, May 20, 2003 10:35 AM
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09/901,938

Please search SEQ ID NO:1 and 2 in the patent and commercial databases (no interference, please).

Thank you,

Christine Saoud
A.U. 1647
CM1 - 10E03
305-7519
mailbox in 10B19

Point of Contact
P. Sheppard
Telephone number: (703) 308-4499

Searcher: _____
Phone: _____
Location: _____
Date Picked Up: _____
Date Completed: 5/30/03
Searcher Prep/Review: _____
Clerical: _____
Online time: _____

TYPE OF SEARCH:
NA Sequences: _____
AA Sequences: _____
Structures: _____
Bibliographic: _____
Litigation: _____
Full text: _____
Patent Family: _____
Other: _____

VENDOR/COST (where applic.)
STN: _____
DIALOG: _____
Questel/Orbit: _____
DRLink: _____
Lexis/Nexis: _____
Sequence Sys.: _____
WWW/Internet: _____
Other (specify): _____

GenCore version 5.1.4 p5_4578
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OM nucleic - nucleic search, using sw model

Run on: May 28, 2003, 21:20:14 ; Search time 404 Seconds

(without alignments)
8985.696 Million cell updates/sec

Title: US-09-901-938-1

Perfect score: 1612
Sequence: 1 CGGCAAAAGAGGAGGATCC.....TGAGCACCTCTGCTCGCT 1612

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 2185239 seqs, 112599159 residues

Total number of hits satisfying chosen parameters: 4370478

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

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23: /SID2/gcgdata/geneseq/geneseqn-emb1/NA2001B.DAT.*
24: /SID2/gcgdata/geneseq/geneseqn-emb1/NA2002.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1612	100.0	1612	24	ABK48318
2	1598	99.1	2270	24	ABL50577
3	1256	77.9	2749	21	AA61157
4	1238.4	76.8	1240	22	AAH64781
5	1211	75.1	1211	22	AAH28133
6	1211	75.1	1211	24	ABA97195
7	1151	71.4	13200	24	ABL50582
8	912	56.6	1973	21	AA61159
9	798	49.5	996	22	AA521376

10	798	49.5	996	22	AA644266	Human PRO9828 nucl
11	756	46.9	756	22	AAAD16366	Human sbgRGF-19b g
12	756	46.9	756	22	AAH75021	Nucleotide sequenc
13	756	46.9	756	22	AAH75033	Nucleotide sequenc
14	756	46.9	756	24	ABN81575	Human FGF23 protei
15	756	46.9	756	24	ABL91738	Human polynucleoti
16	753	46.7	753	22	AAH76317	Human fibroblast g
17	685.6	42.5	747	24	ABL50653	Human fibroblast g
18	684	42.4	684	24	ABL50654	Human fibroblast g
19	674.4	41.8	690	24	ABL50654	Human fibroblast g
20	659.2	40.9	805	21	AA61155	Human fibroblast g
21	537	33.3	537	21	AA61158	Human fibroblast g
22	534	33.1	534	21	AA61160	Human fibroblast g
23	528	32.8	753	22	AAH28134	Degenerate sequenc
24	528	32.8	753	24	ABA97196	Human zFGF12 degen
25	493.2	30.6	531	21	AA61156	Monkey fibroblast
26	465	28.8	465	24	ABL50579	Human OST1311 polyn
27	457.4	28.4	1559	24	ABK48319	CDNA encoding mous
28	428	26.6	756	22	AAH75022	Nucleotide sequenc
29	428	26.6	756	22	AAH75032	Nucleotide sequenc
30	293.4	18.2	543	24	ABL50581	Mouse OST1311 polyn
31	219	13.6	219	24	ABL50580	Human OST1311 polyn
32	74	4.6	630	22	AA68921	Nucleotide sequenc
33	73.2	4.5	624	22	AA609152	Human fibroblast g
34	72.8	4.5	514	22	AA676715	Human fibroblast g
35	72.6	4.5	651	24	ABL91719	Human polynucleoti
36	72.6	4.5	2133	20	AA522224	Protein PRO533 CDN
37	72.6	4.5	2133	20	AA528430	FGF homologue PRO5
38	72.6	4.5	2137	20	AAV72455	Human PRO533 CDNA
39	72.6	4.5	2137	21	AA658599	Human PRO533 prote
40	72.6	4.5	2137	21	AA630028	Human PRO533 nucle
41	72.6	4.5	2137	22	AA658498	PRO533 coding sequ
42	72.6	4.5	2137	22	AA687022	Nucleotide sequenc
43	72.6	4.5	2137	22	AA672382	Human PRO533 CDNA
44	72.6	4.5	2137	24	ABL95599	Human angiotensin
45	72.6	4.5	2137	24	ABL88110	Human PRO533 CDNA

ALIGNMENTS

RESULT 1	ABK48318	standard; CDNA; 1612 BP.
ID	ABK48318	
AC	ABK48318	
XX		
DT	02-JUL-2002	(first entry)
DE	CDNA encoding human fibroblast growth factor-23 (FGF23).	
XX		
KW	Fibroblast growth factor 23; FGF23; hypophosphataemic disorder;	
KW	autosomal dominant hypophosphataemic rickets; ADHR; fibrous dysplasia;	
KW	X-linked hypophosphataemic rickets; XLH; tumour induced osteomalacia;	
KW	TIO; hereditary hypophosphataemic rickets with hypercalciuria; HHRH;	
KW	hypophosphataemic bone disease; HBD; epidermal nevus syndrome;	
KW	nephroblastosis; hyperphosphataemic disorder; mild renal insufficiency;	
KW	tumoral calcinosis; osteoporosis; dermatomyositis; human; gene; ss.	
XX		
OS	Homo sapiens.	
XX		
Key	Location/Qualifiers	
FT	CDS	147..902
FT		/*tag= a
FT		/product= "FGF23"
FT		/note= "Fibroblast growth factor 23"
FT		147..218
FT	sig_peptide	/*tag= b
FT		219..899
FT	mat_peptide	/*tag= c
FT		/label= "Mature_FGF23"
XX		
PN	WO200208271-A1.	

XX 31-JAN-2002.
 PD 10-JUL-2001; 2001WO-US21738.
 XX 19-JUL-2000; 2000US-219137P.
 PR (ADRE-) ADVANCED RES & TECHNOLOGY INST.
 XX (UWMU-) UNIV MUENCHEN MAXIMILIANS LUDWIG.
 PA Ecoms M, White K, Strom TM, Meitinger T;
 PI WPI: 2002-329399/35.
 XX P-PSDB; AAU79355.
 DR Novel fibroblast growth factor 23, and polynucleotides encoding the
 PT polypeptide, useful for treating hypophosphataemic disorders such as
 PT mild renal insufficiency or tumoural calcinosis, or coronary artery
 disease
 XX
 PS Claim 2; Fig 5A; 130bp; English.
 XX
 CC The invention describes an isolated polypeptide (I) comprising a
 CC fibroblast growth factor 23 (FGF23) polypeptide or its mutant, variant,
 CC homologue or fragment. (I) is useful for treatment of a hypophosphataemic
 CC disorder such as autosomal dominant hypophosphataemic rickets (ADHR),
 CC X-linked hypophosphataemic rickets (XLH), hereditary hypophosphataemic
 CC rickets with hypercalciuria (HHRH), hypophosphataemic bone disease (HBD),
 CC epidermal nevus syndrome, fibrous dysplasia tumour induced osteomalacia
 CC (TIO), and nephrolithiasis. (I) can also be used in treatment of a
 CC hypophosphataemic disorder such as mild renal insufficiency and tumoural
 CC calcinosis. Osteoporosis, conditions (e.g., dermatomyositis) involving
 CC deposition of calcium and phosphate in the arteries or soft tissues of
 CC mammal, coronary artery disease may also be treated using methods
 CC described in the invention. Preferably, the nucleic acid or the
 CC polypeptide comprises a mutation that confers increased stability on
 CC FGF23 polypeptide. The polynucleotide encoding (I) can be used in gene
 CC therapy to treat diseased individuals. This sequence encodes the novel
 CC human fibroblast growth factor 23 (FGF23) studied in the invention.
 XX
 SQ Sequence 1612 BP; 405 A; 462 C; 418 G; 327 T; 0 other;
 Query Match 100.0%; Score 1612; DB 24; Length 1612;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1612; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 421 GATACTCTGATGATTTCAAGGCAATTTTGGATCACTATTTCGACCCGGAGA 480
 Db 421 GATACCTCTGATGATTTTCAGAGGCAATTTTGGATCACTATTTCGACCCGGAGA 480
 QY 481 ACTGACGATTCACACCAACGCTGGAAAAAGGATCGACGCTTACACTCTCTAGT 540
 Db 481 ACTGACGATTCACACCAACGCTGGAAAAAGGATCGACGCTTACACTCTCTAGT 540
 QY 541 ATGACTCTGATGATGCTGGGCGGGGCGAAGAGGCTTCGCGGAGATGAACCCAC 600
 Db 541 ATGACTCTGATGATGCTGGGCGGGGCGAAGAGGCTTCGCGGAGATGAACCCAC 600
 QY 601 CCCGTAATCCAGTTCTCTCCGAGAGAGATCCCTTAATTCATTCACTTCAACACC 660
 Db 601 CCCGTAATCCAGTTCTCTCCGAGAGAGATCCCTTAATTCATTCACTTCAACACC 660
 QY 661 CCAATCAACGCGCGACACCCGAGCGCGAGAGACGCTCGAGCCGGACCCCTGAACG 720
 Db 661 CCAATCAACGCGCGACACCCGAGCGCGAGAGACGCTCGAGCCGGACCCCTGAACG 720
 QY 721 TGCTGAAGCCCGGGCGCCGAGATGACCCCGGCTCCGCTCTCTTCAAGAGCTCCGA 780
 Db 721 TGCTGAAGCCCGGGCGCCGAGATGACCCCGGCTCCGCTCTCTTCAAGAGCTCCGA 780
 QY 781 GCGCCGAGACCAACAGCCGATGAGCCAGTACCATTAAGGGGATGAGGGGGGCTGAG 840
 Db 781 GCGCCGAGACCAACAGCCGATGAGCCAGTACCATTAAGGGGATGAGGGGGGCTGAG 840
 QY 841 TGAACGACGAGCTGGGGGAAACGGGCGCGAGAGCTGCGCCCTTCCCAATTCATCT 900
 Db 841 TGAACGACGAGCTGGGGGAAACGGGCGCGAGAGCTGCGCCCTTCCCAATTCATCT 900
 QY 901 AGGATGCTGGAGAGGACCTCTTTAACCATTCTCAGCAACGAGCTTTCCCAAG 960
 Db 901 AGGATGCTGGAGAGGACCTCTTTAACCATTCTCAGCAACGAGCTTTCCCAAG 960
 QY 961 GACCAAGTCCCTTGAAGTCCGAGATGGGAAAGGAGACGGGGCATGTATGAAATTTGC 1020
 Db 961 GACCAAGTCCCTTGAAGTCCGAGATGGGAAAGGAGACGGGGCATGTATGAAATTTGC 1020
 QY 1021 TGCTTCTGGGGTCCCTTCAAGAGAGTCTGTGAGAACCACTTTGAGGCCCAAGT 1080
 Db 1021 TGCTTCTGGGGTCCCTTCAAGAGAGTCTGTGAGAACCACTTTGAGGCCCAAGT 1080
 QY 1081 CATGGGATTCACCGCTTCTCTCACTCATATAGAACACCTTTCCCAATAGAACCCCA 1140
 Db 1081 CATGGGATTCACCGCTTCTCTCACTCATATAGAACACCTTTCCCAATAGAACCCCA 1140
 QY 1141 ACAGGTAACCTAGAAATTTCCCTTATGAGAGTGAAGAGGGGTCTCTCCCACTAT 1200
 Db 1141 ACAGGTAACCTAGAAATTTCCCTTATGAGAGTGAAGAGGGGTCTCTCCCACTAT 1200
 QY 1201 TTTCTCTCTGATGCTCTCCCTTATCACTTTAATCAATTAATTAATTAATTAATTA 1260
 Db 1201 TTTCTCTCTGATGCTCTCCCTTATCACTTTAATCAATTAATTAATTAATTAATTA 1260
 QY 1261 AAAAAAAAAAAAAAGAGTGGTCTCTGAGCTCAAGACTTTGAAGGTGAGGGAAGAGA 1320
 Db 1261 AAAAAAAAAAAAAAGAGTGGTCTCTGAGCTCAAGACTTTGAAGGTGAGGGAAGAGA 1320
 QY 1321 AATCGAGATCCCAAGAGCTTCTCACTGCGCTATGATTTATGTTAGATGCCCGATCC 1380
 Db 1321 AATCGAGATCCCAAGAGCTTCTCACTGCGCTATGATTTATGTTAGATGCCCGATCC 1380
 QY 1381 CACTGCAATTTGAGTGTGAACCTTGAATTAAGCTGAATGGGGCAAGTTGATGAA 1440
 Db 1381 CACTGCAATTTGAGTGTGAACCTTGAATTAAGCTGAATGGGGCAAGTTGATGAA 1440
 QY 1441 ACACTACTTCAAGCTTCTGTTCTTCTTGAAGATCTCGGGGAAGAGGTCAAAAGAC 1500
 Db 1441 ACACTACTTCAAGCTTCTGTTCTTCTTGAAGATCTCGGGGAAGAGGTCAAAAGAC 1500

QY 1501 TGGTGTAGGCTGTGTAAGAACTTGACAGCTGATGCTGTGCTGTAAGAGGACAGGA 1560
 DB 1501 TGGTGTAGGCTGTGTAAGAACTTGACAGCTGATGCTGTGCTGTAAGAGGACAGGA 1560
 QY 1561 ATCATATATAGAAAATCTAGGCTCCCTACAGGGTGAGGACCTTCTGTCTGCT 1612
 DB 1561 ATCATATATAGAAAATCTAGGCTCCCTACAGGGTGAGGACCTTCTGTCTGCT 1612

RESULT 2

ABL50577
 ID ABL50577 standard; cDNA; 2770 BP.

AC ABL50577;

DT 19-JUN-2002 (first entry)

DE Human OST311 polynucleotide sequence SEQ ID NO:1.

XX OST311; phosphoric acid metabolism; calcium metabolism; calcification;
 KM Vitamin D metabolism; hypophosphataemia; phosphate transport; cytosolic;
 KM Chromosome 12p13; osteopetrotic; nephrotropic; antihyperphosphataemic;
 KM phosphorus transport; skeletal disorder; bone cancer; osteoporosis;
 KM bone formation abnormality; vitamin D resistance; Paget's disease;
 KM bone calcium deficiency; kidney disorder; kidney function deficiency;
 KM renal phosphate leakage; urinary tubule acidosis; Fanconi's disease;
 KM gene; ss.

OS Homo sapiens.

PN WO200214504-A1.

PD 21-FEB-2002.

XX 10-AUG-2001; 2001WO-JP06944.

XX 11-AUG-2000; 2000JP-0245144.

PR 21-SEP-2000; 2000JP-0287684.

PR 22-DEC-2000; 2000JP-0391077.

PR 19-APR-2001; 2001JP-0121527.

PA (KIRI) KIRIN BEER KK.

PI Yamashita T, Shimada T, Mizutani S, Fukumoto S;

DR WPI: 2002-227350/28.

DR P-PDB: ABB06940.

PT Polypeptides useful for regulating phosphate transport and calcium

PT metabolism and DNA encoding them for treatment of phosphate and calcium

PT metabolism disorders, including bone formation abnormalities and kidney

PT diseases -

XX Claim 2; Page 153-157; 221pp; Japanese.

XX The present invention describes DNA encoding a polypeptide having the
 CC activities of inhibiting hypophosphataemia, phosphate transport and
 CC calcification, and regulating vitamin D metabolism in vivo. The
 CC polypeptide is of human origin (designated OST311) which is localised to
 CC chromosome 12p13, or is derived from this by addition, deletion and/or
 CC substitution of one or more amino acid residues. OST311 has osteopetrotic,
 CC nephrotropic, antihyperphosphataemic and cytosolic activities. The
 CC OST311 polypeptide regulates phosphorus transport and calcium metabolism.
 CC OST311 sequences can be used for the treatment and diagnosis of skeletal
 CC disorders such as bone cancer, bone formation abnormalities, vitamin D
 CC resistance, osteoporosis, Paget's disease and bone calcium deficiency;
 CC kidney disorders such as kidney function deficiency, renal phosphate
 CC leakage, urinary tubule acidosis and Fanconi's disease. The present
 CC sequence is used in the exemplification of the present invention.

XX Sequence 2770 BP; 727 A; 704 C; 630 G; 709 T; 0 other;

Query Match 99.1%; Score 1598; DB 24; Length 2770;

Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1598; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 15 GAATCCAGTCTTAAGATCTTCAACACAGCTTCTTGCAAGGAGAAAGGACAGTAAG 74
 DB 1 GAATCCAGTCTTAAGATCTTCAACACAGCTTCTTGCAAGGAGAAAGGACAGTAAG 60
 QY 75 GCTTGGGCGCAGAGAGTCCCGACAGAGAGTGTCAAGTTTCAATCTCAGACACAGCACTCA 134
 DB 61 GCTTGGGCGCAGAGAGTCCCGACAGAGAGTGTCAAGTTTCAATCTCAGACACAGCACTCA 120
 QY 135 GAGCAGGCGCAGATGTTGGGGGGCCCGCTCAGAGCTCTGGGTCTGTGTCAGGCTC 194
 DB 121 GAGCAGGCGCAGATGTTGGGGGGCCCGCTCAGAGCTCTGGGTCTGTGTCAGGCTC 180
 QY 195 TGCAGCATGAGCGTCTCAGAGCTTATCCCAATGCTCCCACTGTCTGCTCCAGCTGG 254
 DB 181 TGCAGCATGAGCGTCTCAGAGCTTATCCCAATGCTCCCACTGTCTGCTCCAGCTGG 240
 QY 255 GGTGGCTTATCCACTCTGTACAGCCACAGCCAGAAAGCTTACCACTGCAAGATCCAC 314
 DB 241 GGTGGCTTATCCACTCTGTACAGCCACAGCCAGAAAGCTTACCACTGCAAGATCCAC 300
 QY 315 AAGAAATGGCCATGTGATGGGCGACCCCATCAGACCACTTACAGTGGCCGTGATGAGA 374
 DB 301 AAGAAATGGCCATGTGATGGGCGACCCCATCAGACCACTTACAGTGGCCGTGATGAGA 360
 QY 375 TCAGAGATGCTGCTTGTGATGATTAAGTGTGATGAGAGAAAGATACCTGTGATG 434
 DB 361 TCAGAGATGCTGCTTGTGATGATTAAGTGTGATGAGAGAAAGATACCTGTGATG 420
 QY 435 GATTTCAGAGGCAACATTTTGTGATCACACTATTTGACCCCGAGAACTCAGGTTCAA 494
 DB 421 GATTTCAGAGGCAACATTTTGTGATCACACTATTTGACCCCGAGAACTCAGGTTCAA 480
 QY 495 CACCAAGCGCTGAGAAAACGGGTACAGCTTACCACTTCTCTAATCATCTTCTGTC 554
 DB 481 CACCAAGCGCTGAGAAAACGGGTACAGCTTACCACTTCTCTAATCATCTTCTGTC 540
 QY 555 AGCTGGGGCGGGCGAGAGAGCGCTTCTGCGAGGAGTGAACCCCGGCTCTCCAG 614
 DB 541 AGCTGGGGCGGGCGAGAGAGCGCTTCTGCGAGGAGTGAACCCCGGCTCTCCAG 600
 QY 615 TTCTCTGCTCCGAGAGAAAGATCCCTTAATTCATTCAACACCCCATACACAGCGCG 674
 DB 601 TTCTCTGCTCCGAGAGAAAGATCCCTTAATTCATTCAACACCCCATACACAGCGCG 660
 QY 675 CACACCCGAGCGCCGAGAGAGAGTGGAGCGGAGCCCTGAGCGTGAAGCCCGG 734
 DB 661 CACACCCGAGCGCCGAGAGAGAGTGGAGCGGAGCCCTGAGCGTGAAGCCCGG 720
 QY 735 GCCCGATGACCCCGCGCCGCTCTGTTCACAGAGAGTCCCGAGCGCGAGAGACAC 794
 DB 721 GCCCGATGACCCCGCGCCGCTCTGTTCACAGAGAGTCCCGAGCGCGAGAGACAC 780
 QY 795 AGCCCATGCGCAGTACCATTAAGGGGTGTGAGGGGGGTGAGAGACACAGCAGCT 854
 DB 781 AGCCCATGCGCAGTACCATTAAGGGGTGTGAGGGGGGTGAGAGACACAGCAGCT 840
 QY 855 GGGGGAACGGGGCGGAGAGGCTCCGCTTGGCCAAAGTTTCACTTGAAGTCCGTGAG 914
 DB 841 GGGGGAACGGGGCGGAGAGGCTCCGCTTGGCCAAAGTTTCACTTGAAGTCCGTGAG 900
 QY 915 GGCACCTCTTTAACCCTATCTTACGAAAGCAAGCTTTTCCAGAGACAGAGTCCCTTG 974
 DB 901 GGCACCTCTTTAACCCTATCTTACGAAAGCAAGCTTTTCCAGAGACAGAGTCCCTTG 960
 QY 975 ACGTTCGAGAGAGGAGAAAGTGAACAGGGGCAATGATTAATTTGCTGCTTCTGGGGT 1034
 DB 961 ACGTTCGAGAGAGGAGAAAGTGAACAGGGGCAATGATTAATTTGCTGCTTCTGGGGT 1020
 QY 1035 CCCTTCAACAGAGAGTCTGTGAGAACCAACTTTGAGGCCCAAGTCATGGGGTTTACC 1094

Db 1021 CCTTCCACAGAGAGTCTGTGAGAACCAACCTTTGAGGCCCAAGTACATGGGGTTTCACC 1080
 QY 1095 GCCTTCTCTACATATAGAACACCTTTCCCATAGAGAAACCCACAGGTAAATAGGA 1154
 Db 1081 GCCTTCTCTACATATAGAACACCTTTCCCATAGAGAAACCCACAGGTAAATAGGA 1140
 QY 1155 AATTTCCTCTACATATAGAACAGGGGTCTCTCCCAACATATTTCTTCTCTGT 1214
 Db 1141 AATTTCCTCTACATATAGAACAGGGGTCTCTCCCAACATATTTCTTCTCTGT 1200
 QY 1215 GCCTTCTCTCTTATACATTTTAAGCATTAATAAAAAAAAAAAAAAAAAAAAAAAAAA 1274
 Db 1201 GCCTTCTCTCTTATACATTTTAAGCATTAATAAAAAAAAAAAAAAAAAAAAAAAAAA 1260
 QY 1275 GCAGTGGTCTTCTAGTCAAGACTTTGAAGTGTAGAGAAATCCGAGATCCCA 1334
 Db 1261 GCAGTGGTCTTCTAGTCAAGACTTTGAAGTGTAGAGAAATCCGAGATCCCA 1320
 QY 1335 GAAGCTTCTCTACATGCTTATGATTTATGATGCCCCGATCCCATGTCATTTGAG 1394
 Db 1321 GAAGCTTCTCTACATGCTTATGATTTATGATGCCCCGATCCCATGTCATTTGAG 1380
 QY 1395 TGTGCAAACTTGAACATTAACAGTGAATGGGGCAAGTGAATGAATAACATCTTTGAG 1454
 Db 1381 TGTGCAAACTTGAACATTAACAGTGAATGGGGCAAGTGAATGAATAACATCTTTGAG 1440
 QY 1455 CCTTCTCTCTCTTGAAGCATCTCTGGGGAAGAGCTGTCAAAAGATGAGTGGCTGG 1514
 Db 1441 CCTTCTCTCTCTTGAAGCATCTCTGGGGAAGAGCTGTCAAAAGATGAGTGGCTGG 1500
 QY 1515 TGTAAACTTGAACATTAACAGTGAATGGGGCAAGTGAATGAATAACATCTTTGAG 1574
 Db 1501 TGTAAACTTGAACATTAACAGTGAATGGGGCAAGTGAATGAATAACATCTTTGAG 1560
 QY 1575 CTGAGCTCTCTCAAGGAGTGAACCTTCTGTCTGCT 1612
 Db 1561 CTGAGCTCTCTCAAGGAGTGAACCTTCTGTCTGCT 1598

RESULT 3

AAC61157
 ID AAC61157 standard; cDNA, 2749 BP.

AC AAC61157;

DT 07-FEB-2001 (first entry)

XX Human fibroblast growth factor-20 (FGF-20) cDNA sequence.

DE Fibroblast growth factor-20; FGF-20; cytosolic; neoplastic; metastasis; neuroprotective; antiparkinsonian; anticonvulsant; hepatotropic; cancer; leukaemia; tumour angiogenesis; skeletal dysplasia; Alzheimer's disease; neurodegenerative disorder; Parkinson's disease; multiple sclerosis; amyotrophic lateral sclerosis; progressive supranuclear palsy; epilepsy; Creutzfeldt-Jakob disease; hepatic disorder; cardiovascular disorder; haematopoietic disorder; myeloproliferative disorder; human; ss.

OS Homo sapiens.

PN WO200060085-A1.

PD 12-OCT-2000.

PF 27-MAR-2000; 2000MO-US08076.

PR 02-APR-1999; 99US-0127534.

PR 03-DEC-1999; 99US-0454470.

PA (MILL-) MILLENNIUM PHARM INC.

PI Curtis Raj, Wrighton NC;

XX MPI; 2000-647346/62.

DR P-PSDB; AY85638.
 XX Novel nucleic acids encoding fibroblast growth factor-20, useful for
 PT detecting and modulating FGF-20 and for treating, e.g. cancer,
 PT neurodegenerative disorders, hepatic disorders and cardiovascular
 PT disorders -
 PS Claim 1; Fig 9; 149pp; English.
 XX
 CC Polynucleotide sequences AAC61155-C61160 encode fibroblast growth
 CC factor-20 (FGF-20) proteins AY85637-85639. The invention includes
 CC FGF-20 sequences isolated from humans and monkeys. Proteins,
 CC polynucleotides, agonists and antagonists of the invention have
 CC cytosolic; neuroprotective; antiparkinsonian; anticonvulsant
 CC and hepatotropic activity. The peptides, nucleosides and their binding
 CC agents may be used to modulate the expression or activity of FGF-20, or to
 CC diagnose aberrant FGF-20 expression. FGF20 activity or expression may be
 CC down-regulated to treat proliferative or differentiative disorders (e.g.
 CC cancers and leukaemia), tumour angiogenesis and metastasis, skeletal
 CC dysplasia, neurodegenerative disorders (e.g. Alzheimer's disease,
 CC Parkinson's disease, multiple sclerosis, amyotrophic lateral sclerosis,
 CC progressive supranuclear palsy, epilepsy or Creutzfeldt-Jakob disease),
 CC hepatic disorders, cardiovascular disorders and haematopoietic and/or
 CC myeloproliferative disorders.
 XX
 SQ Sequence 2749 BP; 747 A; 645 C; 633 G; 724 T; 0 other;

Query Match 77.9%; Score 1256; DB 21; Length 2749;

Best Local Similarity 98.1%; Pred. No. 5,5e-293;

Matches 1271; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY 317 GAATGGCAGTGGATGGAGTGGGCGACCCCATGACCATCTACAGTCCCTGATGATCAGTC 376
 Db 277 GATGGCAATGATCTTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 336
 QY 377 AGAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 436
 Db 337 AGAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 396
 QY 437 TTTCAAGGCAATCTTTTGGATCAGATCTATTTGACCCCGGAGAACTGAGTTCACACA 496
 Db 397 TTTCAAGGCAATCTTTTGGATCAGATCTATTTGACCCCGGAGAACTGAGTTCACACA 456
 QY 497 CCAGAGCTGGGAAAGGGGTAGAGAGCTTACACACTCTCTCAGATCATTCTGTGCTAG 556
 Db 457 CCAGAGCTGGGAAAGGGGTAGAGAGCTTACACACTCTCTCAGATCATTCTGTGCTAG 516
 QY 557 TCTGGGCGGGGCGAAGAGAGCTTCTGCGAGGATGAACCCACCCCGATCTCCAGTT 616
 Db 517 TCTGGGCGGGGCGAAGAGAGCTTCTGCGAGGATGAACCCACCCCGATCTCCAGTT 576
 QY 617 CTTGTCCTGGAGGAAGAGATCCCTTAATTAATTAATTAATTAATTAATTAATTAATTA 676
 Db 577 CTTGTCCTGGAGGAAGAGATCCCTTAATTAATTAATTAATTAATTAATTAATTAATTA 636
 QY 677 CACCCGAGGCGCGGAGAGAGATCTGAGGCGGAGACCCCTGAACGTCGTGAAGCCCGG 736
 Db 637 CACCCGAGGCGCGGAGAGAGATCTGAGGCGGAGACCCCTGAACGTCGTGAAGCCCGG 696
 QY 737 CCGGATGACCCCGGCGCGGCGCTCTGTTCAAGAGCTCCCGAGGCGCGAGACAACG 796
 Db 697 CCGGATGACCCCGGCGCGGCGCTCTGTTCAAGAGCTCCCGAGGCGCGAGACAACG 756
 QY 797 CCGGATGACCCCGGCGCGGCGCTCTGTTCAAGAGCTCCCGAGGCGCGAGACAACG 856
 Db 757 CCGGATGACCCCGGCGCGGCGCTCTGTTCAAGAGCTCCCGAGGCGCGAGACAACG 816
 QY 857 GGGAAAGGCGCGGAGAGAGTGGCGCCCTTGGCCAAAGTTCAATGAGTGGTGAAGGG 916
 Db 817 GGGAAAGGCGCGGAGAGAGTGGCGCCCTTGGCCAAAGTTCAATGAGTGGTGAAGGG 876
 QY 917 CACCCCTTTAACCATCCCTGAGCAAGAGAGCTCTTCCCAAGCAACAGGCTCTTAC 976

Db	541	GGCCGGGAGAAAGAGGCTTCTCTCCACGAGCATGAACCCACCCCGTATCTCCAGTTCTTG	600
Qy	621	TCCCGAGAGAAACGAGATCCCCCTTAATTCACTTGAACAACCCCCATTAACAGAGCGGCAAC	680
Db	601	TCCCGAGAGAAACGAGATCCCCCTTAATTCACTTGAACAACCCCCATTAACAGAGCGGCAAC	660
Qy	681	CGAGCGCCGAGAGACGACTCGAGACGGGAGACCCCTCGAACGTGTGAAGCCCGGAGCCGG	740
Db	661	CGAGCGCCGAGAGACGACTCGAGACGGGAGACCCCTCGAACGTGTGAAGCCCGGAGCCGG	720
Qy	741	ATGACCCCGGCCCCGCGCTCTGTTCACAGAGAGCTCCGAGCGCCGAGGACAAACAGCCCG	800
Db	721	ATGACCCCGGCCCCGCGCTCTGTTCACAGAGAGCTCCGAGCGCCGAGGACAAACAGCCCG	780
Qy	801	ATGAGCCAGTGAACCATTAAGGGGTGTCAAGGGGGGTGTGAATGAACACGACGCTGGGGGA	860
Db	781	ATGAGCCAGTGAACCATTAAGGGGTGTCAAGGGGGGTGTGAATGAACACGACGCTGGGGGA	840
Qy	861	ACGGAGCCCGAAGGCTGCGCGCCCTTGCCAAAGTCAATCAAGGGTGTGCTGGAAGGGCAAC	920
Db	841	ACGGAGCCCGAAGGCTGCGCGCCCTTGCCAAAGTCAATCAAGGGTGTGCTGGAAGGGCAAC	900
Qy	921	CTCTTTAAACCATCTCTCAGCAACGACGCTCTCCCAAGACACAGTCCCTTGAAGTTTC	980
Db	901	CTCTTTAAACCATCTCTCAGCAACGACGCTCTCCCAAGACACAGTCCCTTGAAGTTTC	960
Qy	981	CGAGGATGGGAAGGTGACAGGGGCATGTATGAAATTTGCTGCTTCTGAGGGTCCCTTC	1040
Db	961	CGAGGATGGGAAGGTGACAGGGGCATGTATGAAATTTGCTGCTTCTGAGGGTCCCTTC	1020
Qy	1041	CACAGAGGTCTCTGTGAACAACAACTTTGAAGGCCCAAGTCATGAGGGTTTCACCGCTTC	1100
Db	1021	CACAGAGGTCTCTGTGAACAACAACTTTGAAGGCCCAAGTCATGAGGGTTTCACCGCTTC	1080
Qy	1101	CTCACTCCATTAAGAACACCTTTCCCAATGTGAACCCCAACAGTAACTGAATATTC	1160
Db	1081	CTCACTCCATTAAGAACACCTTTCCCAATGTGAACCCCAACAGTAACTGAATATTC	1140
Qy	1161	CCCTTCAATGAAGTAGAGAGAGAGGGGTCTCTCCCAATATTTCTTCTTGCTCTCT	1220
Db	1141	CCCTTCAATGAAGTAGAGAGAGAGGGGTCTCTCCCAATATTTCTTCTTGCTCTCT	1200
Qy	1221	CCCTTTATATCATCTTTTAAGCATAAAAA	1260
Db	1201	CCCTTTATATCATCTTTTAAGCATAAAAA	1240
RESULT 5			
AAH28133			
ID	AAH28133 standard; DNA; 1211 BP.		
XX			
AC	AAH28133;		
XX			
DT	05-SEP-2001 (first entry)		
DE	Nucleotide sequence of fibroblast growth factor homologue zFGF12.		
KM	Fibroblast growth factor; zFGF12; chromosome 12; 12q 1.3;		
KW	neural cell; prostatic cell; pancreatic cell; hematopoietic cell;		
KW	hyperplasia; regeneration; diabetes; amyotrophic lateral sclerosis;		
KW	stroke; angiogenesis; wound healing; ss.		
XX			
OS	Homo sapiens.		
XX			
FH	Key		
FT	CDS		
FT	/tag= a		
FT	/product= "fibroblast growth factor homologue zFGF12"		
FT	sig_peptide		
FT	/tag= b		
FT	mat_peptide		
FT	/tag= 870		
FT	/tag= c		

[illegible]

```

QY 453 TTGGATCACTATTTCAGCCCGAGAACTGAGGTTCCAACACAGACCGCTGGAAAC 512
DB 421 TTGGATCACTATTTCAGCCCGAGAACTGAGGTTCCAACACAGACCGCTGGAAAC 480
QY 513 GGGTACAGAGCTTACCACTCTCTCAGTATCATCTTCTGATGAGTGGGCGGAG 572
DB 481 GGGTACAGAGCTTACCACTCTCTCAGTATCATCTTCTGATGAGTGGGCGGAG 540
QY 573 AGAGCTTCTGCGGAGGATGAACCCCGGTAATCTCCAGTTCTGTCTCCGAGAAC 632
DB 541 AGAGCTTCTGCGGAGGATGAACCCCGGTAATCTCCAGTTCTGTCTCCGAGAAC 600
QY 633 GAGATCCCTTAATTCATTCAACACCCCAATACAGCGGCGGACACCCGAGAGCGGAG 692
DB 601 GAGATCCCTTAATTCATTCAACACCCCAATACAGCGGCGGACACCCGAGAGCGGAG 660
QY 693 GAGACTCGAGAGCGGAGACCCCTGAAAGTGTGAAGCCCGGAGCGGAGTACCCCGGAG 752
DB 661 GAGACTCGAGAGCGGAGACCCCTGAAAGTGTGAAGCCCGGAGCGGAGTACCCCGGAG 720
QY 753 CGGAGCTCTGTTTCAAGAGGCTCCGAGCGCGAGGACAAACAGCCGATGCGAGTAC 812
DB 721 CGGAGCTCTGTTTCAAGAGGCTCCGAGCGCGAGGACAAACAGCCGATGCGAGTAC 780
QY 813 CCAATTAGGGGTGCTCAGAGGGGCGTCAAGTAAACGACGCTGGGGGAAAGCGGCCGAG 872
DB 781 CCAATTAGGGGTGCTCAGAGGGGCGTCAAGTAAACGACGCTGGGGGAAAGCGGCCGAG 840
QY 873 GGGTCCGCGCCCTTGGCAAGTTTCTAGGGGTGCTGAAAGGGGCAACCCCTTTAACCA 932
DB 841 GGGTCCGCGCCCTTGGCAAGTTTCTAGGGGTGCTGAAAGGGGCAACCCCTTTAACCA 900
QY 933 TCCCTGAGCAAGAGAGCTCTTCCAAAGACAGAGCTCTTGAAGTCCGAGAGTGGAA 992
DB 901 TCCCTGAGCAAGAGAGCTCTTCCAAAGAGAGAGCTCTTGAAGTCCGAGAGTGGAA 960
QY 993 AGGTGACAGGGGAGTATGAAATTTCTGCTGCTGAGGCTCTTCAAGAGAGTCC 1052
DB 961 AGGTGACAGGGGAGTATGAAATTTCTGCTGCTGAGGCTCTTCAAGAGAGTCC 1020
QY 1053 TGGAGAGCAACCTTGAAGGCGCAAGTCAATGGGGTTTCAACCGCTTCTCATCTTAT 1112
DB 1021 TGGAGAGCAACCTTGAAGGCGCAAGTCAATGGGGTTTCAACCGCTTCTCATCTTAT 1080
QY 1113 AGAACAACCTTCCCAATAGAGAAACCCCAAGGTAATCTAAATTTCCCTCATAGAG 1172
DB 1081 AGAACAACCTTCCCAATAGAGAAACCCCAAGGTAATCTAAATTTCCCTCATAGAG 1140
QY 1173 GTAGAGAGAGGGGTCTCTCCCAATATTTCTCTCTGCTGCTCTCTTATCAC 1232
DB 1141 GTAGAGAGAGGGGTCTCTCCCAATATTTCTCTCTGCTGCTCTCTTATCAC 1200
QY 1233 TTTTAAAGATA 1243
DB 1201 TTTTAAAGATA 1211

```

RESULT 6

```

ABA97195
ID ABA97195 standard; DNA; 1211 BP.
XX
XX ABA97195;
XX
XX 18-JUN-2002 (first entry)
XX
DE Human zFGF12 encoding sequence.
XX
XX zFGF12; human; fibroblast growth factor; FGF; vulnery; chemotherapy;
XX lung injury; epithelial cell; mesenchymal cell; ds.
XX
OS Homo sapiens.
XX
XX Key Location/Qualifiers
FH

```

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FT CDS 115..870
FT /*tag= a
FT /product= "zFGF12"
FT sig_peptide
FT 115..186
FT /*tag= b
FT /label= secretory_signal_sequence
FT mat_peptide 187..867
FT /*tag= c
FT /product= "mature_zFGF12"
PN US2001044525-A1.
PD 22-NOV-2001.
PF 04-JAN-2001; 2001US-0754634.
PP 05-JUN-2000; 2000US-174582P.
PR (CONK/) CONKLIN D C.
PA
PI Conklin DC;
PX WPI: 2002-105575/14.
PY P-PSDB; ABB08352.
DR
DX
XX New fibroblast growth factor, designated zFGF12 is for promoting wound
XX healing, protecting and stimulating epithelial cells after chemotherapy
XX PT or radiation, and stimulating lung epithelial cells after premature
XX birth or injury
XX
XX Claim 16; Page 21-22; 34pp; English.
XX
XX The invention relates to a fibroblast growth factor polypeptide,
XX designated zFGF12, comprising a sequence at least 95% identical to
XX residues 25 to 251 of the 251 amino acid sequence, given in the
XX specification. The activity of the fibroblast growth factor of the
XX invention may be described as vulnery. zFGF12 can be used to promote
XX wound healing of the epidermis, to protect and promote recovery of
XX epithelial cells in the gastrointestinal tract, small intestine and oral
XX mucosa after chemotherapy or radiation, and to stimulate lung epithelial
XX cells after lung injury or complications in neonates following premature
XX birth. The polypeptide can also be used to modulate proliferation and
XX function of epithelial cells of prostate, cornea, mammary and kidney
XX tissue. The polypeptide is also useful to stimulate proliferation of
XX cultured mesenchymal cells and to identify new family members. The
XX current sequence represents the human zFGF12 encoding sequence.
XX
XX Sequence 1211 BP; 273 A; 380 C; 321 G; 237 T; 0 other;
XX
XX Query Match 75.1%; Score 1211; DB 24; Length 1211;
XX Best Local Similarity 100.0%; Pred. No. 2.8e-282;
XX Matches 1211; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 33 TCACACAGCTACTTGCAGAGGAGAGAAAGCCAGTAAAGGCTGGGCGAGAGAGTC 92
DB 1 TCACACAGCTACTTGCAGAGGAGAGAAAGCCAGTAAAGGCTGGGCGAGAGAGTC 60
QY 93 CCGACAGAGAGTGTCAAGTTTCAATCTCAGACAGCCACTCAGAGAGAGGAGAGATTTG 152
DB 61 CCGACAGAGAGTGTCAAGTTTCAATCTCAGACAGCCACTCAGAGAGAGGAGAGATTTG 120
QY 153 GGGGCGCGCTCAGAGGCTTGGGCTGTGCTTGTGAGAGGCTGTGAGAGAGGCTCTC 212
DB 121 GGGGCGCGCTCAGAGGCTTGGGCTGTGCTTGTGAGAGGCTGTGAGAGAGGCTCTC 180
QY 213 AGAGCTATCCCAATGCTCCCACTGCTGCTCAGAGGAGGAGGCTGATCCACTG 272
DB 181 AGAGCTATCCCAATGCTCCCACTGCTGCTCAGAGGAGGAGGCTGATCCACTG 240
QY 273 TACACAGCCACAGCCAGAGAAAGCTTACCTGAGATCCAAAGATGGCCATGGAT 332
DB 241 TACACAGCCACAGCCAGAGAAAGCTTACCTGAGATCCAAAGATGGCCATGGAT 300

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QY 267 CACCTGTACACAGCAGCCAGGAACAGTACCACTGACATCCAAAGATGGCCAT 326
DB 121 CACCTGTACACAGCAGCCAGGAACAGTACCACTGACATCCAAAGATGGCCAT 180
QY 327 GGGGATGGGCCCCCATTCAGACCATCTTACAGTCCCTGATGATCAGAGATGCT 386
DB 181 GGGGATGGGCCCCCATTCAGACCATCTTACAGTCCCTGATGATCAGAGATGCT 240
QY 387 GGGCTTGTGTGATTAACAGGTGTGATGAGAGAAATACCTTGCATGATTTCAAGGC 446
DB 241 GGGCTTGTGTGATTAACAGGTGTGATGAGAGAAATACCTTGCATGATTTCAAGGC 300
QY 447 AACATTTTGGATCAACATATTTGACCCCGAGAACTGACAGTTTCAACACAGAGCTG 506
DB 301 AACATTTTGGATCAACATATTTGACCCCGAGAACTGACAGTTTCAACACAGAGCTG 360
QY 507 GAAAAAGGGTACACACTCTTCACTCTCTCAAGTACATCTTCTGATGAGTGGCCCG 566
DB 361 GAAAAAGGGTACACACTCTCTCTCAAGTACATCTTCTGATGAGTGGCCCG 420
QY 567 GCGAAGAGAGCTTCTGCGACAGGACAAACCCACCCCGTACTCCAGTTCTGTCGCG 626
DB 421 GCGAAGAGAGCTTCTGCGACAGGACAAACCCCGTACTCCAGTTCTGTCGCG 480
QY 627 AAGAAAGAGATCCCTTAATTCACTTCAACACCCCATACAGGGGGGCAACCCCGAGC 686
DB 481 AAGAAAGAGATCCCTTAATTCACTTCAACACCCCATACAGGGGGGCAACCCCGAGC 540
QY 687 GCGAGAGACACTCGAGAGCGGAGCCCTTGACAGTGTGAAGCCCGGGCCGAGATACC 746
DB 541 GCGAGAGACACTCGAGAGCGGAGCCCTTGACAGTGTGAAGCCCGGGCCGAGATACC 600
QY 747 CCGGCCCCCGGCTCTGTTTCAACAGAGCTCCCGAGCGCCGAGAGCAACAGCCCGATGGCC 806
DB 601 CCGGCCCCCGGCTCTGTTTCAACAGAGCTCCCGAGCGCCGAGAGCAACAGCCCGATGGCC 660
QY 807 AGTGAACCCATTAGGGGTGTGACAGGGCGGTGACGTAAACAGAGCTGTGGGGAACGGGC 866
DB 661 AGTGAACCCATTAGGGGTGTGACAGGGCGGTGACGTAAACAGAGCTGTGGGGAACGGGC 720
QY 867 CCGAAGAGCTGCGCCCTTCCGCAAGTTCACTAG 902
DB 721 CCGAAGAGCTGCGCCCTTCCGCAAGTTCACTAG 756

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RESULT 12
AAH75021
ID AAH75021 standard; DNA; 756 BP.
XX
AC AAH75021;
XX
DT 29-OCT-2001 (first entry)
XX
DE Nucleotide sequence of human fibroblast growth factor 23 (FGF-23).
XX
KW Fibroblast growth factor 23; FGF-23; injury; placental cell; ulcer;
KW congenital defect; fertility; abnormal growth; thymus function;
KW leukemia; lymphoma; autoimmune disease; proliferative disorder;
KW differentiation disorder; central nervous system disorder; infarction;
KW Parkinson's disease; Alzheimer's disease; Crohn's disease; inflammation;
KW intestinal wound; motility disorder; absorption disorder; stroke;
KW congenital malformation; ischemic vascular disease; myocardial ischemia;
KW peripheral vascular disease; renal artery disease; bone disease;
KW musculoskeletal disease; skeletal myopathy; arthritis; ss.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT CDS 1..756
FT /tag= a
FT /product= "fibroblast growth factor 23 (FGF-23)"
XX
PN MO200166596-A2.

```

XX
PD 13-SEP-2001.
XX
PF 07-MAR-2001; 2001WO-US07469.
XX
PR 08-MAR-2000; 2000US-0187854.
PR 18-SEP-2000; 2000US-0233368.
PR 05-DEC-2000; 2000US-0251649.
XX
PA (CHIR ) CHIRON CORP.
PA (KYOU ) UNIV KYOTO.
XX
PI Itoh N, Kavanagh MW,
XX
DR WPI; 2001-522948/57.
DR P-PSDB; AAG63944.
XX
PT Isolated nucleic acids encoding the human and murine fibroblast growth
PT factor 23, useful in the treatment of a condition characterized by
PT inadequate function of placental cells (e.g. congenital defects) and
PT the thymus (e.g. leukemia) -
XX
PS Claim 2; Fig 3; 77pp; English.
XX
CC The present sequence encodes fibroblast growth factor 23 (FGF-23).
CC Human FGF-23 polynucleotides and polypeptides are useful for treating
CC a patient suffering from traumatic injury or a condition characterized
CC by dysfunction of or injury to skin cells, a condition characterized by
CC inadequate function of placental cells (e.g. congenital defects),
CC fertility, or abnormal growth, a condition characterized by inadequate
CC function of the thymus (e.g. leukemia, lymphoma, autoimmune disease,
CC proliferative disorder of the thymus, or differentiation disorder of
CC the thymus), or a condition characterized by central nervous system
CC disorder (e.g. Parkinson's disease or Alzheimer's disease). The human
CC FGF-23 polynucleotide and polypeptide are also useful in the treatment
CC of Crohn's disease, healing of intestinal wounds, ulcers, inflammation,
CC injuries and surgical anastomoses, motility and absorption disorders,
CC and congenital malformations of the intestine. They are also useful for
CC treating ischemic vascular diseases (e.g. myocardial ischemia/infarction,
CC peripheral vascular disease, renal artery disease, stroke) and
CC musculoskeletal disease characterized by loss of function, inadequate
CC function or death of skeletal muscle cells, bone cells or supporting
CC cells (e.g. skeletal myopathies, bone disease, or arthritis).
XX
SQ Sequence 756 BP; 159 A; 250 C; 212 G; 135 T; 0 other;

```

Query Match 46.9%; Score 756; DB 22; Length 756;
Best Local Similarity 100.0%; Pred. No. 1.5e-172;
Matches 756; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 147 ATGTTGGGGGCGCGCTCAGGCTGTGGGTGCTGTGAGAGCTCTGCAGCATGAGC 206
DB 1 ATGTTGGGGGCGCGCTCAGGCTGTGGGTGCTGTGAGAGCTCTGCAGCATGAGC 60
QY 207 GTCTCAGAGCTATCCCATGCTCTCCCACTGCTCGGCTCCAGCTGGGGGTGGCCATC 266
DB 61 GTCTCAGAGCTATCCCATGCTCTCCCACTGCTCGGCTCCAGCTGGGGGTGGCCATC 120
QY 267 CACCTGTACACAGCAGCCAGGAACAGTACCACTGACATCCAAAGATGGCCAT 326
DB 121 CACCTGTACACAGCAGCCAGGAACAGTACCACTGACATCCAAAGATGGCCAT 180
QY 327 GGGGATGGGCCCCCATTCAGACCATCTTACAGTCCCTGATGATCAGAGATGCT 386
DB 181 GGGGATGGGCCCCCATTCAGACCATCTTACAGTCCCTGATGATCAGAGATGCT 240
QY 387 GGGCTTGTGTGATTAACAGGTGTGATGAGAGAAATACCTTGCATGATTTCAAGGC 446
DB 241 GGGCTTGTGTGATTAACAGGTGTGATGAGAGAAATACCTTGCATGATTTCAAGGC 300
QY 447 AACATTTTGGATCAACATATTTGACCCCGAGAACTGACAGTTTCAACACAGAGCTG 506
DB 301 AACATTTTGGATCAACATATTTGACCCCGAGAACTGACAGTTTCAACACAGAGCTG 360

```

QY 507 GAAACGGGTAACGCTCTTACCACTCTCTCTGATATCACTTCTGTGTGATCTGTGGCCGG 566
 DB 361 GAAACGGGTAACGCTCTTACCACTCTCTCTGATATCACTTCTGTGTGATCTGTGGCCGG 420
 QY 567 GCGAAGAGAGCTTCTCTGCGACGAGATGAACCCCGGTCCTCCCACTTCTGTGTGGCCGG 626
 DB 421 GCGAAGAGAGCTTCTCTGCGACGAGATGAACCCCGGTCCTCCCACTTCTGTGTGGCCGG 480
 QY 627 AGGAACGAGATCTCTCTTCACTTCAACACCCCAATACCAAGGAGGACACCCCGAGC 686
 DB 481 AGGAACGAGATCTCTCTTCACTTCAACACCCCAATACCAAGGAGGACACCCCGAGC 540
 QY 687 GCGAAGAGAGCTTCTCTGCGACGAGATGAACCCCGGTCCTCCCACTTCTGTGTGGCCGG 746
 DB 541 GCGAAGAGAGCTTCTCTGCGACGAGATGAACCCCGGTCCTCCCACTTCTGTGTGGCCGG 600
 QY 747 GCGGCCCCGCGCTCTCTTCACTTCAACAGGAGGACCCCGGACGACACAGCCGATGACC 806
 DB 601 GCGGCCCCGCGCTCTCTTCACTTCAACAGGAGGACCCCGGACGACACAGCCGATGACC 660
 QY 807 AGTACCCATTAGAGGAGTGTCAAGGAGGAGTGTGAGTGAACAGCAAGCTGGGGGAAAGGGGC 866
 DB 661 AGTACCCATTAGAGGAGTGTCAAGGAGGAGTGTGAGTGAACAGCAAGCTGGGGGAAAGGGGC 720
 QY 867 CCGAAGAGCTGCGGCGCCCTTTCGCAAGTTCATCTAG 902
 DB 721 CCGAAGAGCTGCGGCGCCCTTTCGCAAGTTCATCTAG 756

RESULT 13

AAH75033
 ID AAH75033 standard; DNA; 756 BP.

XX AC AAH75033;

DT 29-OCT-2001 (first entry)

DE Nucleotide sequence of human fibroblast growth factor 23 (FGF-23).

XX FGF-23; injury; placental cell; ulcer;
 XX congenital defect; fertility; lymphoma; lymphoma; injury;
 XX autoimmune disease; proliferative disorder; differentiation disorder;
 XX central nervous system disorder; Parkinson's disease; inflammation;
 XX Alzheimer's disease; Crohn's disease; intestinal wound; stroke;
 XX motility disorder; absorption disorder; intestinal malformation;
 XX ischemic vascular disease; myocardial infarction; myocardial infarction;
 XX peripheral vascular disease; renal artery disease; skeletal myopathy;
 XX musculoskeletal disease; skeletal muscle cell; bone disease; arthritis;
 XX ss.

OS Homo sapiens.

XX Key Location/Qualifiers
 FT 1..756
 FT CDS /tag= a

FT /product= "fibroblast growth factor 23 (FGF-23)"

FT WO200166595-A2.

XX 13-SEP-2001.

XX 07-MAR-2001; 2001WO-US07468.

XX 08-MAR-2000; 2000US-0187854.

XX 18-SEP-2000; 2000US-0233368.

XX 05-DEC-2000; 2000US-0251650.

XX (CHIR) CHIRON CORP.

XX (KYOU) UNITV KYOTO.

XX Itoh N, Kavanagh MW;

DR WPI, 2001-522947/57.
 DR P-PSDB; AAG63947.
 XX Isolated nucleic acids encoding the human and murine fibroblast growth
 PT factor 23, useful in the treatment of a condition characterized by
 PT inadequate function of placental cells (e.g. congenital defects) and
 PT the thymus (e.g. leukemia).
 XX
 PS Claim 2; Fig 3; 77pp; English.

CC The present sequence encodes fibroblast growth factor 23 (FGF-23).
 CC The human FGF-23 polynucleotide and polypeptide are useful for treating
 CC a patient suffering from traumatic injury or a condition characterized
 CC by dysfunction of or injury to skin cells, a condition characterized
 CC by inadequate function of placental cells (e.g. congenital defects),
 CC fertility, or abnormal growth), a condition characterized by inadequate
 CC function of the thymus (e.g. leukemia, lymphoma, autoimmune disease,
 CC proliferative disorder of the thymus, or differentiation disorder of
 CC the thymus), or a condition characterized by central nervous system
 CC disorder (e.g. Parkinson's disease or Alzheimer's disease). The human
 CC FGF-23 polynucleotide and polypeptide are also useful in the
 CC treatment of Crohn's disease, healing of intestinal wounds, ulcers,
 CC inflammation, injuries and surgical anastomoses, motility and
 CC absorption disorders, and congenital malformations of the intestine.
 CC They are also useful for treating ischemic vascular diseases (e.g.
 CC myocardial ischemia/infarction, peripheral vascular disease, renal
 CC artery disease, stroke) and musculoskeletal disease characterized by
 CC loss of function, inadequate function or death of skeletal muscle cells,
 CC bone cells or supporting cells (e.g. skeletal myopathies, bone disease,
 CC or arthritis).

XX Sequence 756 BP; 159 A; 250 C; 212 G; 135 T; 0 other;

Query Match 46.9%; Score 756; DB 22; Length 756;
 Best Local Similarity 100.0%; Pred. No. 1.5e-172;
 Matches 756; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 147 ATGTGGGGGGCCCGCTCAAGGCTGTGGTCTGTGCTGTGACGCTTCACAGATGAGC 206
 DB 1 ATGTGGGGGGCCCGCTCAAGGCTGTGGTCTGTGCTGTGACGCTTCACAGATGAGC 60
 QY 207 GTCTCAGAGCCATATCCATATGCTCCCACTGCTGCTGCTGCTGCTGCTGCTGCTGCT 266
 DB 61 GTCTCAGAGCCATATCCATATGCTCCCACTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
 QY 267 CACCTGTACACAGCCACAGCCAGGAGACAGTACCACTTCACTTCACTTCACTTCACTT 326
 DB 121 CACCTGTACACAGCCACAGCCAGGAGACAGTACCACTTCACTTCACTTCACTTCACTT 180
 QY 327 GTGGATGGGCGCCCATCATGACATCTACAGTCCCTGATATGATCAAGATGCT 386
 DB 181 GTGGATGGGCGCCCATCATGACATCTACAGTCCCTGATATGATCAAGATGCT 240
 QY 387 GGCTTGTGTGATTAACAGTGTGATGACAGAGATTAAGTATGATGATGATGATGATGATG 446
 DB 241 GGCTTGTGTGATTAACAGTGTGATGACAGAGATTAAGTATGATGATGATGATGATGATG 300
 QY 447 AACATTTTGGATCACTATTTGCAACCGGAGAACTGAGGTTCCAAACAGACGCTG 506
 DB 301 AACATTTTGGATCACTATTTGCAACCGGAGAACTGAGGTTCCAAACAGACGCTG 360
 QY 507 GAAACGGGTAACGCTCTTCACTTCACTTCACTTCACTTCACTTCACTTCACTTCACTT 566
 DB 361 GAAACGGGTAACGCTCTTCACTTCACTTCACTTCACTTCACTTCACTTCACTTCACTT 420
 QY 567 GCGAAGAGAGCTTCTCTGCGACGAGATGAACCCCGGTCCTCCCACTTCTGTGTGGCCGG 626
 DB 421 GCGAAGAGAGCTTCTCTGCGACGAGATGAACCCCGGTCCTCCCACTTCTGTGTGGCCGG 480
 QY 627 AGGAACGAGATCTCTCTTCACTTCAACACCCCAATACCAAGGAGGACACCCCGAGC 686
 DB 481 AGGAACGAGATCTCTCTTCACTTCAACACCCCAATACCAAGGAGGACACCCCGAGC 540

```

QY 687 GCCGAGGACGACTCGAGCCGAGACCCCTGAACTGCTGAAGCCCGGAGCCCGGATGACC 746
DB 541 GCCGAGGACGACTCGAGCCGAGACCCCTGAACTGCTGAAGCCCGGAGCCCGGATGACC 600
QY 747 CCGGCCCCCGGCTCTGTTTCAAGAGCTCCGAGCCCGGAGCAACAGCCCGATGAGC 806
DB 601 CCGGCCCCCGGCTCTGTTTCAAGAGCTCCGAGCCCGGAGCAACAGCCCGATGAGC 660
QY 807 AGTGACCCATTAGGGGTGTGTCAGGGGCGGTGCACTGAACACGACGCTGGGGAAACGGGC 866
DB 661 AGTGACCCATTAGGGGTGTGTCAGGGGCGGTGCACTGAACACGACGCTGGGGAAACGGGC 720
QY 867 CCGGAGGCTGCGCCCGCTTCCCAAGTTCACTTAG 902
DB 721 CCGGAGGCTGCGCCCGCTTCCCAAGTTCACTTAG 756

RESULT 14
ID ABL91575 standard; cDNA, 756 BP.
XX
XX ABL91575;
XX
XX 28-AUG-2002 (first entry)
XX
XX Human FGF23 protein encoding cDNA SEQ ID NO 1.
XX
XX Human; FGF23; haemostatic; hyperphosphataemia; gene therapy; gene; ss.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
XX CDS 1..756
XX FT /*tag= a
XX FT /product= "FGF23 protein"
XX
XX PN WO200252009-A1.
XX
XX 04-JUL-2002.
XX
XX 26-DEC-2001; 2001WO-JP11482.
XX
XX 26-DEC-2000; 2000JP-0396316.
XX
XX 29-MAY-2001; 2001JP-0161370.
XX
XX (CHUS ) CHUGAI SEIYAKU KK.
XX
XX Itoh H, Fukushima N, Saito H, Kusano K;
XX
XX WPI; 2002-508891/54.
XX
XX P-PSDB; ABB77581.
XX
XX Human FGF23 protein mutant for lowering blood phosphorus level,
XX applicable in gene therapy remedies for hyperphosphatemia -
XX
XX Disclosure; Page 44-46; 64pp; Japanese.
XX
XX
XX The invention relates to a DNA (ABL91575) encoding a protein (ABB77581)
XX FGF23 and mutants FGF23 comprising an amino acid substitution of arginine
XX at position 176 to glutamine and/or position 179 to glutamine or
XX tryptophan. The mutants are generated by introducing the following base
XX changes in the nucleic acid sequence: R176Q mutant is generated by
XX G527A; R179Q is generated by G536A; and R179W is generated by C535T. The
XX protein and encoding DNA are applicable in remedies for
XX hyperphosphatemia, including gene therapy.
XX
XX
XX Sequence 756 BP; 159 A; 250 C; 212 G; 135 T; 0 other;
XX
XX Query Match 46.9%; Score 756; DB 24; Length 756;
XX Best Local Similarity 100.0%; Pred. No. 1.5e-172;
XX Matches 756; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 147 ATGTTGGGGCCCGCTCAGGCTGTGGGTGTGCTTGACGCGCTGACAGATGAGC 206

```

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DB 1 ATGTTGGGGCCCGCTCAGGCTGTGGGTGTGCTTGACGCGCTGACAGATGAGC 60
QY 207 GTCTCAGAGCCTATCCCAATGCTCCCACTGCTCGGCTCCAGCTGGGTGGCTATC 266
DB 61 GTCTCAGAGCCTATCCCAATGCTCCCACTGCTCGGCTCCAGCTGGGTGGCTATC 120
QY 267 CACCTGTACACAGCCACAGCAGAGAAACAGTACCACTGAGATCCAGAAATGGCAT 326
DB 121 CACCTGTACACAGCCACAGCAGAGAAACAGTACCACTGAGATCCAGAAATGGCAT 180
QY 327 GTGATGGGCAACCCCATCAGACCATCTAGTCCCTGATCATAGATCAGAGATGCT 386
DB 181 GTGATGGGCAACCCCATCAGACCATCTAGTCCCTGATCATAGATCAGAGATGCT 240
QY 387 GGCCTTGTGATTTACAGGTGATGAGAGAGATACCTCTGATGATTTCAAGGC 446
DB 241 GGCCTTGTGATTTACAGGTGATGAGAGAGATACCTCTGATGATTTCAAGGC 300
QY 447 AACATTTTGGATCACAATTTTGAACCCGAGAACTGAGTTCCAAACAGACGCTG 506
DB 301 AACATTTTGGATCACAATTTTGAACCCGAGAACTGAGTTCCAAACAGACGCTG 360
QY 507 GAAAGGGGTACAGACGCTTACCACTCTCTCAATATCACTTCTGTGATGAGTGGC 566
DB 361 GAAAGGGGTACAGACGCTTACCACTCTCTCAATATCACTTCTGTGATGAGTGGC 420
QY 567 GCGAAGAGCCTTCTGCGACAGGATGAACCCACCCCGATCCCAAGTTCCTGTC 626
DB 421 GCGAAGAGCCTTCTGCGACAGGATGAACCCACCCCGATCCCAAGTTCCTGTC 480
QY 627 AGGAGAGATCCCTCTTAATTCATTCAACACCCCATACAGAGGGGACACCCGAGC 686
DB 481 AGGAGAGATCCCTCTTAATTCATTCAACACCCCATACAGAGGGGACACCCGAGC 540
QY 687 GCCGAGAGCAGCTCGAGCGGGGACCCCTGAACCTGCTGAAGCCCGGCGGATGACC 746
DB 541 GCCGAGAGCAGCTCGAGCGGGGACCCCTGAACCTGCTGAAGCCCGGCGGATGACC 600
QY 747 CCGGCCCCCGGCTCTGTTTCAAGAGCTCCGAGCCCGGAGCAACAGCCCGATGAGC 806
DB 601 CCGGCCCCCGGCTCTGTTTCAAGAGCTCCGAGCCCGGAGCAACAGCCCGATGAGC 660
QY 807 AGTGACCCATTAGGGGTGTGTCAGGGGCGGTGCACTGAACACGACGCTGGGGAAACGGGC 866
DB 661 AGTGACCCATTAGGGGTGTGTCAGGGGCGGTGCACTGAACACGACGCTGGGGAAACGGGC 720
QY 867 CCGGAGGCTGCGCCCGCTTCCCAAGTTCACTTAG 902
DB 721 CCGGAGGCTGCGCCCGCTTCCCAAGTTCACTTAG 756

RESULT 15
ID ABL91738 standard; DNA, 756 BP.
XX
XX ABL91738;
XX
XX 28-MAY-2002 (first entry)
XX
XX Human polynucleotide SEQ ID NO 81.
XX
XX Human; HIV; HCV; gene expression; oligonucleotide; tumour; pathogen;
XX Plasmodium; virus; viroid; cytokine; prion; antisense oligonucleotide;
XX cytosolic; virucide; protozoacide; antibacterial; ds.
XX
XX
XX Homo sapiens.
XX
XX DE10100586-Cl.
XX
XX 11-APR-2002.
XX
XX 09-JAN-2001; 2001DE-1000586.
XX

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GenCore version 5.1.4.p5.4578
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OM nucleic - nucleic search, using sw model

Run on: May 28, 2003, 11:51:21 ; Search time 2480 Seconds

(without alignments)
10527.066 Million cell updates/sec

Title: US-09-901-938-1

Sequence: 1612
1 cggcaaaagaggaatcc.....tgagcactctctgcgcgc 1612

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 16154066 segs, 809774376 residues

Total number of hits satisfying chosen parameters: 32308132

Minimum DB seg length: 0

Maximum DB seg length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

EST:*
1: em_estba:*
2: em_estnum:*
3: em_estin:*
4: em_estnu:*
5: em_estov:*
6: em_estpl:*
7: em_estro:*
8: em_hic:*
9: gb_est1:*
10: gb_est2:*
11: gb_hic:*
12: gb_est3:*
13: gb_est4:*
14: gb_est5:*
15: em_estfun:*
16: em_estom:*
17: gb_ges:*
18: em_ges_hum:*
19: em_ges_hiv:*
20: em_ges_pln:*
21: em_ges_vrt:*
22: em_ges_fun:*
23: em_ges_nam:*
24: em_ges_mus:*
25: em_ges_oher:*
26: em_ges_pro:*
27: em_ges_rtd:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	571	35.4	719	17	AG095702 Pan trogl
2	220.6	13.7	470	13	B1789859
3	212.6	13.2	433	10	BB850709
4	102.8	6.4	438	17	AQ412342
5	99.6	6.2	564	17	AQ570344
6	72.6	4.5	741	12	BB869144

7	72.6	4.5	835	12	BB889616	BB889616 601512637
8	72.6	4.5	888	13	B1919047	B1919047 603180811
9	68.4	4.2	950	11	AK007574	AK007574 Mus muscu
10	63.8	4.0	708	12	BG328684	BG328684 602427957
11	56.4	3.5	925	17	CNS0091P	AL053013 Drosophi1
12	54	3.3	1201	17	CNS016A0	AL106482 Drosophi1
13	53.6	3.3	206	10	AM395897	AM395897 sh07B05.Y
14	53.4	3.3	889	17	CNS006MT	AL065765 Drosophi1
15	52.4	3.3	796	17	CNS0118D	AL099943 Drosophi1
16	52	3.2	1024	12	BE965125	BE965125 601658918
17	51.8	3.2	152	12	BE877210	BE877210 601485130
18	51.8	3.2	421	9	AI961371	AI961371 wt17F04.X
19	51.8	3.2	530	12	BG308044	BG308044 Im56B06.Y
20	51.8	3.2	839	17	CNS004NB	AL054280 Drosophi1
21	51.6	3.2	215	9	AI874303	AI874303 wms0h10.x
22	51.4	3.2	594	10	BB619211	BB619211 BB619211
23	51.4	3.2	600	12	BG807855	BG807855 2072-92.M
24	51.4	3.2	1017	17	CNS015K4	AL105550 Drosophi1
25	51.2	3.2	820	12	BE964506	BE964506 601658618
26	51.2	3.2	921	12	BG282532	BG282532 602406405
27	50.8	3.2	634	9	AL514497	AL514497 AL514497
28	50.8	3.2	1076	17	CNS015E0	AL106110 Drosophi1
29	50.6	3.1	1124	17	CNS073BM	AL427304 clone BAO
30	50.4	3.1	316	13	B1506901	B1506901 B170029A
31	50.4	3.1	319	9	AA814555	AA814555 of42f07.s
32	50.4	3.1	339	9	AI590021	AI590021 tr74h11.x
33	50.4	3.1	653	12	BG170925	BG170925 602333695
34	50.4	3.1	671	9	AL514097	AL514097 AL514097
35	50.2	3.1	119	12	BG670429	BG670429 DNBB037
36	50.2	3.1	133	12	BE874163	BE874163 601484347
37	50.2	3.1	544	14	C93698	C93698 C93698 Dict
38	50	3.1	368	9	AA828436	AA828436 oc46c05.s
39	50	3.1	440	9	AI359279	AI359279 qy27d12.x
40	50	3.1	468	9	AL514541	AL514541 AL514541
41	50	3.1	1884	12	BF530637	BF530637 602071926
42	49.8	3.1	1201	17	CNS016B1	AL106519 Drosophi1
43	49.6	3.1	322	9	AA213024	AA213024 mw86h08.x
44	49.6	3.1	399	12	BG384192	BG384192 303172.MA
45	49.4	3.1	404	9	AI860694	AI860694 w115D12.X

ALIGNMENTS

RESULT 1
AG095702 719 bp DNA linear GSS 03-NOV-2001
DEFINITION Pan troglodytes DNA, clone: PTB-096N15.R, genomic survey sequence.
ACCESSION AG095702
VERSION AG095702.1 GI:16647544
KEYWORDS GSS.
SOURCE Pan troglodytes male lymphoblast DNA, clone lib:PTB Chimpanzee Male
ORGANISM Pan troglodytes
BAC library clone:PTB-096N15.R.
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Pan.
REFERENCE
AUTHORS Fujiyama,A., Hattori,M., Toyoda,A., Taylor,T.D., Yada,T., Totoki,Y., Watanabe,H. and Sakaki,Y.
TITLE BAC end sequences of library PTB
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 719)
AUTHORS Fujiyama,A., Hattori,M., Toyoda,A., Taylor,T.D., Yada,T., Totoki,Y., Watanabe,H. and Sakaki,Y.
TITLE Direct Submission
JOURNAL Submitted (02-AUG-2001) Asao Fujiyama, The Institute of Physical and Chemical Research (RIKEN), Genomic Sciences Center (GSC), 1-7-22, Suenrio-chou, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan (E-mail:chimpes@sc.riken.go.jp, URL:http://hsp.gsc.riken.go.jp/, Tel:81-45-503-9111, Fax:81-45-503-9170)
COMMENT Clones are derived from the chimpanzee BAC library PTB This BAC end was generated during the Rad process and may have higher chance of clone tracking errors.

PRIMERS

Sequencing: M13Rev
LIBRARY

Vector : pKS145
R.Site 1 : SacI
R.Site 2 : SacI

FEATURES

SOURCE

Location/Qualifiers
1..719
/organism="Pan troglodytes"
/db_xref="taxon:9598"
/clone="PTB-096N15.R"
/sex="male"
/cell_type="lymphoblast"
/clone_lib="PTB Chimpanzee Male BAC library"
BASE COUNT 171 a 194 c 175 g 177 t 2 others
ORIGIN

Query Match 35.4%; Score 571; DB 17; Length 719;
Best Local Similarity 93.0%; Pred. No. 3.5e-89;
Matches 613; Conservative 0; Mismatches 35; Indels 11; Gaps 1;

QY 749 GAGCCGCGCTCTCTGTTCAAGAGAGTCCCGAGCGCGAGCAACAGCCGATGGCCAG 808
DB 70 GGGCGCGCGTATGATGCTCGAGAGTCCCGAGCGCGAGCAACAGCCGATGGCCAG 129
QY 809 TGACCATTTAGGGGTGTGTCAGGGGCGGTGAGTGAACAAGCAGCTGGGGAACGGGCC 868
DB 130 TGACCATTTAGGGGTGTGTCAGGGGCGGTGAGTGAACAAGCAGCTGGGGAACGGGCC 189
QY 869 GGAAGGCTGCGCGCGCTTCCCAAGTTCATCTAGGGTCTGTTGAGAGGAGCACTCTTTAA 928
DB 190 GGAAGGCTGCGCGCGCTTCCCAAGTTCATCTAGGGTCTGTTGAGAGGAGCACTCTTTAA 249
QY 929 CCATCTCCCTCAGCAACAGAGCTTCCCAAGAGCAAGAGTCCCTGAGTTCGAGAGATG 988
DB 250 CCATCTCCCTCAGCAACAGAGCTTCCCAAGAGCAAGAGTCCCTGAGTTCGAGAGATG 309
QY 989 GGAAGGCTGAGAGGGGCTGTATGAAATTTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1048
DB 310 GGAAGGCTGAGAGGGGCTGTATGAAATTTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 369
QY 1049 GTCTCTGAGAACCAACCTTTGAGGCCCAAGTATGAGGGTTTACCGCTTCTCACTCC 1108
DB 370 GTCTCTGAGAACCAACCTTTGAGGCCCAAGTATGAGGGTTTACCGCTTCTCACTCC 429
QY 1109 ATATGAAACCTTCCCAATAGAAACCCCAAGGTAACTAATAAATTTCCCTTCAAT 1168
DB 430 ATATGAAACCTTCCCAATAGAAACCCCAAGGTAACTAATAAATTTCCCTTCAAT 489
QY 1169 GAAAGTGAAGAGAGGGGCTCTCCCAACATATTTCTTCTGCTGCTGCTGCTGCTGCTT 1228
DB 490 GAAAGTGAAGAGAGGGGCTCTCCCAACATATTTCTTCTGCTGCTGCTGCTGCTGCTT 549
QY 1229 TCACTTTAAGCATATAAAAAAAAAAAAAAAAAAAAAAAAAAAGCAGTGGGTTCTG 1288
DB 550 TCACTTTAAGCATATAAAAAAAAAAAAAAAAAAAAAAAAAAAGCAGTGGGTTCTG 598
QY 1289 AGCTTAAGCTTTGAAGGTGTGAGGAGAAATCGAGATCCCAAGAGCTTCTCACT 1348
DB 599 AGCTTAAGCTTTGAAGGTGTGAGGAGAAATCGAGATCCCAAGAGCTTCTCACT 658
QY 1349 GACCTATGATTTATGATGATGCCCCGATCCCACTGGGATTTGAGTGGCAACCTTG 1407
DB 659 GACCTATGATTTATGATGATGCCCCGATCCCACTGGGATTTGAGTGGCAACCTTG 717

RESULT 2
LOCUS B1789859 470 bp mRNA linear EST 12-MAR-2002
DEFINITION ic44d12.y1 Melton Normalized Mixed Mouse Pancreas 1 NI-MMSI Mus
ACCESSION B1789859
VERSION B1789859.1 GI:15817584

KEYWORDS

EST.
house mouse.
mus musculus

SOURCE

house mouse.
mus musculus

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Scuriongnathi; Muridae; Murinae; Mus.

REFERENCE

1 (bases 1 to 470)
Melton, D., Brown, J., Kenty, G., Permutt, A., Lee, C., Kaestner, K.,
Lemishka, I., Searce, M., Brestelli, J., Gradwohl, G., Clifton, S.,
Hillier, L., Marra, M., Page, D., Wylie, T., Martin, J., Blistain, A.,
Schmitt, A., Theising, B., Ritter, E., Ronko, I., Bennett, J., Cardenas,
M., Gibbons, M., McCann, R., Cole, R., Tsagarelis, V., Williams, T.,
Jackson, Y., and Bowers, Y.

AUTHORS

Endocrine Pancreas Consortium
Unpublished (2000)

TITLE

JOURNAL

COMMENT

CONTACT: Douglas Melton, Klaus H. Kaestner, & Hiroshi Inoue
Harvard University, Howard Hughes Medical Institute
Dept of Molecular and Cellular Biology, 7 Divinity Ave, Cambridge,
MA 02138
Tel: 617-495-1812
Fax: 617-495-8557
Email: dmelton@molp.harvard.edu
Library was constructed by Dr. Douglas Melton DNA sequencing by:
Washington University Genome Sequencing Center For information on
obtaining a clone please contact: Juliana Brown
(brown@fas.harvard.edu)
MGI:1942717 This sequence now available from the IMAGE consortium,
for clone orders contact: info@image.llnl.gov
Seq primer: -40RP from GIBCO
High quality sequence stop: 458.

FEATURES

SOURCE

1..470
/organism="Mus musculus"
/strain="ICR"
/db_xref="taxon:10090"
/clone="IMAGE:5656391"
/clone_lib="Melton Normalized Mixed Mouse Pancreas 1
NI-MMSI"
/sex="Both for embryonic & newborn, male for adult and
adult islet"
/dev_stage="Embryonic day 10.5, E12.5, E16.5, newborn,
adult, mixed"
/lab_host="DH10B"
/note="Vector: pSPORT1, Site 1: Not I; Site 2: Sal I; Five
libraries representing E10.5/12.5 pancreatic bud, E16.5
pancreas, newborn pancreas, adult pancreas, and adult
islets of Langerhans were separately constructed using
Superscript Plasmid Library kit (Life Technologies). cDNA
was made by oligo-dT priming and size-selected by column
fractionation. Libraries were amplified once on solid
support and plasmid DNA from each library was prepared
and mixed in equal amounts. The mixed library DNA was
normalized by method #4 from Bonaldo, Lennon, and Soares
1996 Genome Research 6:791-806; 0.5 microgram
5 micrograms PCR product representing mixed library
inserts and hybridized to an Ecot of 6. Single-stranded
(unhybridized) plasmids were isolated by hydroxyapatite
chromatography and used to make this library."
BASE COUNT 75 a 166 c 139 g 89 t 1 others
ORIGIN

Query Match 13.7%; Score 220.6; DB 13; Length 470;
Best Local Similarity 69.0%; Pred. No. 1.5e-28;
Matches 301; Conservative 0; Mismatches 135; Indels 0; Gaps 0;

QY 466 ATTTCAGCCGAGAGTATGAGTTCACACAGAGCTGGAGAAAGGGTACAGCTCT 525
DB 35 ACTTCAGCCGAGAGTATGAGTTCACACAGAGCTGGAGAAAGGGTACAGCTCT 94
QY 526 ACCACTCTCCCTCAGTATCATTCTGTGAGTGTGGCCGGGCGAAGAGAGCTTCGCG 585
DB 95 ACTGTGCGAGAGATCATCTACTGTGAGCTGTGGCCGGGCGAAGAGAGCTTCGAGC 154

QY	586	CAGGACATGAACCCACACCCCGCTACTCCCAAGTTCTCTGTCCGGAGAACAGATCCCCCTAA	645
Db	155	CGGACACCAACCCCGCGCCCTTCTCCCAAGTTCTGTGGGCGCCAGAAAGAGTCCCGCTGC	214
QY	646	TTCACTTCAACACCCCATATCAACGGGCGGACACCGGAGGCGCGAGAGACATCGGAGC	705
Db	215	TGTGTTTCAACACTGTTTCGCCCAAGGCGCACACGGCAAGCGCCGAGAGACCAACCCGAGC	274
QY	706	GGGACCCCTCGTGAACGTCGTGAAGCCCCGGGCGCGGATGACCCCGGACCCGGCCTCTGTT	765
Db	275	GGACCCCACTGAACGTCGTCAAGCCCGCGGCCCGGCCCAAGCTGTAGCTCTATCTTGCT	334
QY	766	CACAGAGCTCCCGAGCGCGCGAGACAAACGCCGATGGCCAGATGACCCATTAGGGGTG	825
Db	335	CTCGCAGCTGCCGACCGACAGAGAGGTGGCCCCCGACAGCGATCTCTTGGGGGTGC	394
QY	826	TCAGGGGCGGTGAGTGAACACGCGACGCTGGGGGAAACGGGCGCCGGAAGGCTGCCGCCCT	885
Db	395	TGCGCAGAGCGCGTGGAGATGCTCGCGGGGGCGCGGAGGCGCGATAGTGTGCGCCCT	454
QY	886	TCGCCCAAGTTCACTTA	901
Db	455	TTCCCAAGTTCCGCTTA	470

Computer-based methods for the mouse full-length cDNA encyclopedia: real-time sequence clustering for construction of a nonredundant cDNA library. *Genome Res.* 11 (2): 281-289 (2001). Please visit our web site (<http://genome.sgc.riken.go.jp>) for further details.

e mouse tissues.

Location/Qualifiers

1. .453

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/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="F930108M15"
/clone_lib="RIKEN full-length enriched, adult inner ear"
/tissue_type="inner ear"
/dev_stage="adult"
/note="pooled tissues ; (tissue_type=cerebellum,
dev_stage=16 days neonate, sex=mixed) ,
(tissue_type=cerebellum, dev_stage=0 day neonate,
sex=mixed), (tissue_type=hippocampus, dev_stage=adult,
sex=male), (tissue_type=whole body, dev_stage=9 days
embryo, sex=mixed), (tissue_type=lung, dev_stage=13 days
embryo, sex=mixed)"

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Query Match	13.2%	Score 212.6;	DB 10;	Length 433;
Best Local Similarity	74.6%;	Pred. No. 3.6e-27;		
Matches 311; Conservative	0;	Mismatches 94;	Indels 12;	Gaps 3

QY	39	CAGCTACTTGGCAAGGAGGAAAAGGCCAGATTAAAGCCTGGGCCAGGAGACTCCCGACA	98
Db	28	CAGCTTCTTCTCTAGAGAGAGAAAGGCCAGACCAAGGCCCGACTG-----TC TG	78
QY	99	GGAGTGTACAGGTTTCAATCTCAGACACCAAGCCACTAGAGACAGGGCCAGATGTTGGGGGCC	158
Db	79	GGAGTGTACAGATATCAAACTCAAGATTAGCCACTAGTGAATGTGCA--ATGCTAAGGAGAC	136
QY	159	GCGCTCAGGCTCTGGGCTGTGCTGTGTCAGACGCTCTGCAGCATAGAGCCTCTCAGAGCC	218
Db	137	TGCTTAAAGCTCTGTGGTGGCGGTGCTGTGCACTGTCTCTCAGTTGGGCACTGTAGAGCC	196
QY	219	TATCCAAATGCTCTCCCACTGCTCGGGTTC--AGCTGGGGTGGCCTGATCCACTGTACAC	277
Db	197	TATCCAGACACTTCCCCCACTGCTTGGTGTCTCCAACCTGGGGAAGCCGACCCACTGTACAC	256
QY	278	AGCCACACCCAGGAACACTACCACTTCGACATTCACAAGAATGGCCATGTGATGCGCC	337
Db	257	GGCTACACCCAGGAACCACTATCACTTACAGATTCATGGGATGGTCAATGATGAGCCAC	316
QY	338	ACCCCATAGACCAATCTACAGTGCCTGTATGATCAGATCAAGAGATGCTGGCTTTGTGGT	397
Db	317	CCCCATAGACCAATCTACAGTGCCTGTATGATTAACATCAAGAGACGCGCGGCTGTGGT	376
QY	398	GATTACAGGTGTGATGAGCAGAGAATACCTGTGATGAGATTTCAGAGGCAACATTTT	454
Db	377	GATTAACAGGACCAATGACTCAGAGGTTCTTTGTATGATCTTCCACGGCAACATTTT	433

RESULT 4	
AQ412342	
LOCUS	
DEFINITION	
AQ412342	438 bp DNA linear GSS 23-MAR-1999
RPCI-11-177D20.TJ RPCI-11 Homo sapiens genomic clone RPCI-11-177D20	
/ DNA sequence.	

ACCESSION	AQ412342
VERSION	AQ412342.1
KEYWORDS	GSS.
SOURCE	human.

ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 438)
REFERENCE
AUTHORS
Zhao, S., Adams, M.D., Niernan, W., Malek, J., de Jong, P. and Venter
J.C.

TITLE Use of BAC End Sequences from Library RPCI-11 for Sequence-Ready Map Building

JOURNAL Unpublished (1997)

COMMENT Other GSSs: RPCI-11-177D20.TV
Contact: Shaying Zhao, William Niernan, Mark Adams
Department of Eukaryotic Genomics
The Institute for Genomic Research
7712 Medical Center Dr., Rockville, MD 20850
Tel: 301 838 0208
Fax: 301 838 0208
Email: hbeetigr.org

Clones are derived from the human BAC library RPCI-11. For BAC library availability, please contact Pieter de Jong (piederdejong.med.buffalo.edu). Clones may be purchased from BACPAC Resources (http://bacpac.med.buffalo.edu/ordering) or from Research Genet cs (info@resgen.com). BAC end search page: http://www.tigr.org/tcdb/humgen/bac_end_search/bac_end_search.html.

Seq primer: SP6
Class: BAC ends.

FEATURES
Location/Qualifiers
1..438
/organism="Homo sapiens"
/db_xref="GDB:7567675"
/db_xref="taxon:9606"
/clone="RPCI-11-177D20"
/clone_1b="RPCI-11"
/sex="Male"
/note="Vector: pBAC3.6; Site 1: EcoRI; Site 2: EcoRI; RPCI11 Human Male BAC Library"

BASE COUNT 123 a 73 c 116 g 126 t

ORIGIN

Query Match 6.4%; Score 102.8; DB 17; Length 438;
Best Local Similarity 79.2%; Pred. No. 3.4e-08;
Matches 122; Conservative 0; Mismatches 32; Indels 0; Gaps 0;

QY 317 GAATGGCATGTGATGGCGACCCCATCAGACCATCTACAGTCCCTGATGATCAGATC 376
DB 213 GGATGGCAATGAGCTTTGGCCCTGCTTTTTCATATGTCCTGATGATCAGATC 272

QY 377 AGAGGATGCTGGCTTTGTGTGATTAACAGGTGATGAGCAGAAATACCTCTGCATGGA 436
DB 273 AGAGGATGCTGGCTTTGTGTGATTAACAGGTGATGAGCAGAAATACCTCTGCATGGA 332

QY 437 TTTCAGAGGCAACATTTTGGATCACAATTTTC 470
DB 333 TTTCAGATGCAACATTTTGGATCATTGAGTTTC 366

RESULT 5
AOS70344 564 bp DNA linear GSS 01-JUN-1999
LOCUS HS_5352.B1.G09.T7A.RPCI-11 Human Male BAC Library Homo sapiens
DEFINITION genomic clone Plate=928 Col=17 Row=N, DNA sequence.
ACCESSION AOS70344
VERSION AOS70344.1 GI:4963564
KEYWORDS GSS.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 564)
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
Mahairas,G.G., Wallace,J.C., Smith,K., Swartzell,S., Holzman,T., Keller,A., Shaker,R., Furlong,J., Young,J., Zhao,S., Adams,M.D. and Hood,L.
Sequence-tagged connectors: A sequence approach to mapping and scanning the human genome
Proc. Natl. Acad. Sci. U.S.A. 96 (17), 9739-9744 (1999)
99380589
Contact: Mahairas GG, Wallace JC, Hood L
High Throughput Sequencing Center
University of Washington

401 Queen Anne Avenue North, Seattle, WA 98109, USA
Tel: (206) 616-3618
Fax: (206) 616-3887
Email: jwallace@u.washington.edu

Clones are derived from the human BAC library RPCI-11. For BAC library availability, please contact Pieter de Jong (piederdejong.med.buffalo.edu). Clones may be purchased from BACPAC Resources (http://bacpac.med.buffalo.edu/ordering) or from Research Genet cs (info@resgen.com). BAC end Web Server: http://www.htsc.washington.edu

Plate: 928 row: N column: 17

Seq primer: T7
Class: BAC ends
High quality sequence stop: 564.

FEATURES
Location/Qualifiers
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/db_xref="taxon:9606"
/clone="Plate=928 Col=17 Row=N"
/clone_1b="RPCI-11 Human Male BAC Library"
/note="Vector: pBAC3.6; Site 1: EcoRI; Site 2: EcoRI; Male blood DNA was isolated from one randomly chosen donor and partially digested with a combination of EcoRI and EcoRI Methylase. Size selected DNA was cloned into the pBAC3.6 vector at EcoRI sites"

BASE COUNT 152 a 100 c 138 g 169 t 5 others

ORIGIN

Query Match 6.2%; Score 99.6; DB 17; Length 564;
Best Local Similarity 77.9%; Pred. No. 1.1e-07;
Matches 120; Conservative 0; Mismatches 34; Indels 0; Gaps 0;

QY 317 GAATGGCATGTGATGGCGACCCCATCAGACCATCTACAGTCCCTGATGATCAGATC 376
DB 244 GGATGGCAATGAGCTTTGGCCCTGCTTTTTCATATGTCCTGATGATCAGATC 303

QY 377 AGAGGATGCTGGCTTTGTGTGATTAACAGGTGATGAGCAGAAATACCTCTGCATGGA 436
DB 304 AGAGGATGCTGGCTTTGTGTGATTAACAGGTGATGAGCAGAAATACCTCTGCATGGA 363

QY 437 TTTCAGAGGCAACATTTTGGATCACAATTTTC 470
DB 364 TTTCAGATGCAACATTTTGGATCATTGAGTTTC 397

RESULT 6
BE869144 741 bp mRNA linear EST 20-OCT-2000
LOCUS BE869144
DEFINITION BE869144.1 GI:10317920
ACCESSION BE869144
VERSION BE869144.1
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 741)
NIH-MGC http://mgs.nci.nih.gov/
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgaabs-r@mail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LILN)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LILN at:
http://image.llnl.gov
Plate: L1M9566 row: k column: 08
High quality sequence stop: 696.

FEATURES

Location/Qualifiers

1. 741
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:3849343"
/tissue_type="adenoctarcinoma"
/lab_host="DH10B (phage-resistant)"
/note="Organ: colon; Vector: PCMV-SPORE6; Site 1: NotI;
Site 2: SalI; Cloned unidirectionally. Primer: Oligo dt.
Average insert size 1.8 kb. Library constructed by Life
Technologies." 259 c 235 g 125 t

BASE COUNT

122 a 259 c 235 g 125 t

ORIGIN

Query Match 4.5%; Score 72.6; DB 12; Length 741;

Best Local Similarity 53.8%; Pred. No. 0.0048;
Matches 150; Conservative 0; Mismatches 129; Indels 0; Gaps 0;

QY 293 CAGCTACCACTGTCAGATCCAGAAATGCGCATGTGATGCGCACCCCATCAGACCAT 352
DB 277 CAGCTGCTTCTGCGCATCGTGCAGCGGCTGTGATGCTGCGCGCGGCGCCAGACCGC 336
QY 353 CTACAGTGCCTGATATCATCATAGAGATGCTGCTTGTGTATTAAGGTGTGAT 412
DB 337 GCACAGTTTGTCTGAGATCAAGGACATGCTGCGGACCGTGCATCAAGGCGTGCA 396
QY 413 GAGCAGAAATGCTGTCATGATTTTCAAGGCAACATTTTGGATCACTATTTCGA 472
DB 397 CAGCTGCGGTACTCTGCAATGCGCGCCAGCAAGATCAGAGGCTGCTTCACTATC 456
QY 473 CCGGAGAACTGAGGTTCCACACACGCTGGAAGAGGATGACGCTTACCACTC 532
DB 457 GAGAGAACTGTGCTTTCAGAGAGAGATCCGCCAGATGCTTCAATGTGACGATC 516
QY 533 TCCTCAGTACCTTCTGTCAGTCTGCGCGCGGCA 571
DB 517 CGAGAGACACCGCTCCGCTCTCCGAGACAGTGC 555

RESULT 7

BE889616 835 bp mRNA linear EST 20-OCT-2000

LOCUS 601512637F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3914192 5'

DEFINITION mRNA sequence.

ACCESSION BE889616

VERSION BE889616.1 GI:10347118

KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 835)

AUTHORS NIH-MGC http://mgi.nci.nih.gov/.

TITLE National Institutes of Health, Mammalian Gene Collection (MGC)

JOURNAL Unpublished (1999)

COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgabbs-r@mail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: L1AM9735 row: 1 column: 09
High quality sequence stop: 687.

FEATURES

source

1. 835
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:3914192"
/clone_lib="NIH_MGC_71"

/tissue_type="leiomyosarcoma"
/lab_host="DH10B (phage-resistant)"
/note="Organ: uterus; Vector: PCMV-SPORE6; Site 1: NotI;
Site 2: SalI; Cloned unidirectionally. Primer: Oligo dt.
Average insert size 2.1 kb." 284 c 267 g 145 t

BASE COUNT

139 a 284 c 267 g 145 t

ORIGIN

Query Match 4.5%; Score 72.6; DB 12; Length 835;

Best Local Similarity 53.8%; Pred. No. 0.0046;
Matches 150; Conservative 0; Mismatches 129; Indels 0; Gaps 0;

QY 293 CAGCTACCACTGTCAGATCCAGAAATGCGCATGTGATGCGCACCCCATCAGACCAT 352
DB 285 CAGCTGCTTCTGCGCATCGTGCAGCGGCTGTGATGCTGCGCGCGGCGCCAGACCGC 344
QY 353 CTACAGTGCCTGATATCATCATAGAGATGCTGCTTGTGTATTAAGGTGTGAT 412
DB 345 GCACAGTTTGTCTGAGATCAAGGACATGCTGCGGACCGTGCATCAAGGCGTGCA 404
QY 413 GAGCAGAAATGCTGTCATGATTTTCAAGGCAACATTTTGGATCACTATTTCGA 472
DB 405 CAGCTGCGGTACTCTGCAATGCGCGCCAGCAAGATCAGAGGCTGCTTCACTATC 464
QY 473 CCGGAGAACTGAGGTTCCACACACGCTGGAAGAGGATGACGCTTACCACTC 532
DB 465 GAGAGAACTGTGCTTTCAGAGAGAGATCCGCCAGATGCTTCAATGTGACGATC 524
QY 533 TCCTCAGTACCTTCTGTCAGTCTGCGCGCGGCA 571
DB 525 CGAGAGACACCGCTCCGCTCTCCGAGACAGTGC 563

RESULT 8

BI919047 888 bp mRNA linear EST 17-OCT-2001

LOCUS 603180811F1 NIH_MGC_121 Homo sapiens cDNA clone IMAGE:5245034 5'

DEFINITION mRNA sequence.

ACCESSION BI919047

VERSION BI919047.1 GI:16200101

KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 888)

AUTHORS NIH-MGC http://mgi.nci.nih.gov/.

TITLE National Institutes of Health, Mammalian Gene Collection (MGC)

JOURNAL Unpublished (1999)

COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgabbs-r@mail.nih.gov
Tissue Procurement: Life Technologies, Inc.
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: L1AM1618 row: e column: 03
High quality sequence stop: 833.

FEATURES

source

1. 888
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:5245034"
/clone_lib="NIH_MGC_121"
/lab_host="DH10B"
/note="Organ: brain; Vector: PCMV-SPORE6; Site 1: NotI;
Site 2: EcoRV (destroyed); RNA source anonymous pool of 3
fetal brains, female age 20 weeks, female age 24 weeks,
and male age 26 weeks. Library is oligo-dt primed and
directionally cloned (EcoRV site is destroyed upon
cloning). Average insert size 1.7 kb, insert size range

gene
CDS

```

/clone_1lb="RIKEN full-length enriched mouse cDNA library"
/dev_stage="10 day old"
1.950
/gene="Pgf21"
185..817
/gene="Pgf21"
/notes="data source:MGD, source key:MGI:1861377,
evidence:ISS
fibroblast growth factor 21
putative"
/codon_start=1
/protein_id="BAB25115.1"
/db_xref="GI:12841203"
/db_xref="MGD:MGI:1861377"
/translation="MEMRSRVCTGLMIRLLAVFLGYQAYIPDSPLIQEGQ
VQRRIYTDQDQTEHREIREDTIVGAHNSPESLEKAPKVIOILGVASRF
LCOQDPGALYGSFHPDEACSFRELLLEDGYNYOEAHGLPLRPOKXSPNDATSM
GPRFLPMGLHPEPODAGFLPPRPDVGSSDPLSMVEPLQGRSPSVAS"
BASE COUNT      204 a      278 c      241 g      227 t
ORIGIN

```

```

Query Match      4.2%; Score 68.4; DB 11; Length 950;
Best Local Similarity 53.8%; Pred. No. 0.024;
Matches 141; Conservative 0; Mismatches 121; Indels 0; Gaps 0;
QY 299 CCACCTGCAGATCCACAAGATGGCCATGTGATGGCGACCCCATAGACCATACAG 358
DB 364 CCACCTGCAGATAGGAGATGAAACAGTGTAGGCGACACCGCATCCAGAAAG 423
QY 359 TSCCCTGATGATCAGATCAGAGATGCTGTGTGATTAACAGTGTGATGACAG 418
DB 424 TCTCCTGGAGCTCAAGCCCTGAAGCGAGGCTCATTCATCTGGGTCTCAAGCTTC 483
QY 419 AAGATACCTCTGATGATTTCAAGAGCAATTTTGTATCACTATTTCACCGGA 478
DB 484 TAGGTTCTTTGGCAACAGCAGATGAGCTCTGTATGATCCCTCACTTTGATCTGA 543
QY 479 GAATGCAGATTCACACACAGCGCTGGAACCGGTAGAGTCTACCTCTCTCTCA 538
DB 544 GGCCTGCACCTTCAGAACTGCTGTGAGAGCGGTTCAATGTGTACCATGTAGAGC 603
QY 539 GTATCACTTCTGTGATGCTG 560
DB 604 CCATGGCCCTCCCTCCCTCTG 625

```

RESULT 10
BG328684
LOCUS BG328684 708 bp mRNA linear EST 27-FEB-2001
DEFINITION 602427857p1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:4547223 5',
mRNA sequence.
ACCESSION BG328684
VERSION BG328684.1 GI:1135122
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
1 (bases 1 to 708)
NIH-MGC <http://mgc.nci.nih.gov/>
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (ILNL)
DNA Sequencing by: NIH Intramural Sequencing Center
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/ILNL at:
<http://image.llnl.gov>
Plate: LUCM1235 row: a column: 16
High quality sequence stop: 708.

FEATURES
source

```

Location/Qualifiers
1..708
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:4547223"
/clone_1lb="NIH_MGC_15"
/risue_type="a9encarcinoma cell line"
/lab_host="DH10B (phage-resistant)"
/notes="Organ: colon; Vector: pOTB7; Site 1: XhoI; Site 2:
EcoRI; CDNA made by oligo-dt priming. Directionally
cloned into EcoRI/XhoI sites using the following 5'
adaptor: GGCAACAG(C). Size-selected >500bp for average
insert size 1.8kb. Library constructed by Ling Hong in
the laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies)"
BASE COUNT      115 a      247 c      227 g      119 t
ORIGIN

```

```

Query Match      4.0%; Score 63.8; DB 12; Length 708;
Best Local Similarity 52.9%; Pred. No. 0.16;
Matches 137; Conservative 0; Mismatches 122; Indels 0; Gaps 0;
QY 293 CAGCTTACCACTTCAGATCCACAAGATGGCCATGTGATGGCGACCCCATAGACCAT 352
DB 305 CAGCTCTTCTCCGATCCGATCCGACGCGCTGTGACTGCGCGCGGCGCAGAGCGC 364
QY 353 CTACAGTGCCTGATGATCAGATCAGAGATGCTGTGCTTTGTGATTAACAGTGTGAT 412
DB 365 GCACATTTGCTTGGAGATCAAGCACTCGCTTCGACCGGTGGCCATCAAGGGCGTGA 424
QY 413 GAGCAGAAATACCTTGATGATTTTCAAGAGCAATTTTGTATCACTATTTCGA 472
DB 425 CAGCGTGGGATCCTGTGATGGGCGCAGACGAAAGATGACAGGGCTGCTTACGATCTC 484
QY 473 CCGGAAATCTGAGTTTCAACACAGCGCTGGAACCGGTAGAGCTTACCACTC 532
DB 485 GGAGGAAGACTGTGCTTTCAGAGAGAGATCCGCCAGATGCTTACATGATGACGATC 544
QY 533 TCTCTGATCACTTCTG 551
DB 545 CGAAGACACCGCTCCCG 563

```

RESULT 11
CNS0091P/C
LOCUS CNS0091P/C 925 bp DNA linear GSS 03-JUN-1999
DEFINITION Drosophila melanogaster genome survey sequence TERT end of BAC #
BACR19D16 of RPCI-98 library from Drosophila melanogaster (fruit
fly), genomic survey sequence.
ACCESSION AL053013
VERSION AL053013.1 GI:4934461
KEYWORDS GSS.
SOURCE Drosophila melanogaster.
ORGANISM Drosophila melanogaster.
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
Empidoidea; Drosophilidae; Drosophila.
1 (bases 1 to 925)
NIH-MGC <http://mgc.nci.nih.gov/>
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (ILNL)
DNA Sequencing by: NIH Intramural Sequencing Center
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/ILNL at:
<http://image.llnl.gov>
Plate: LUCM1235 row: a column: 16
High quality sequence stop: 708.

COMMENT
Determination of this BAC-end sequence was carried out as part of a
collaboration with the Berkeley Drosophila Genome Project (BDGP).
The BDGP is constructing a physical map of the Drosophila
melanogaster genome using these BACs. For further information
please see <http://www.fruitfly.org> The BDGP Drosophila
melanogaster BAC library was prepared by Kazuo Osoegawa and
Aaron Mamoser in Peter de Jong's laboratory in the Department of
Cancer Genetics at the Roswell Park Cancer Institute in Buffalo,
NY. The library is named RPCI-98 and was constructed by partial

/tissue_type="immature flowers of field grown plants"
/lab_host="Xl10-Gold"

/note="vector: pBluescript II XR; Site 1: EcoRI; Site 2:
XhoI; This cDNA library was constructed from mRNA isolated
from immature flowers of field grown plants. The cDNA
library was prepared using the Stratagene pBluescript II
XR library construction kit. Complementary DNA was
synthesized from mRNA using a primer consisting of a poly
(dT) sequence with a XhoI restriction site. EcoRI adapters
were ligated to the blunt-ended cDNA fragments followed by
XhoI digestion. The cDNA fragments were directionally
cloned into the EcoRI-XhoI restriction site of the
pBluescript vector. The ligated cDNA fragments were
transformed into XL10-gold host cells. This library was
constructed by Dr. Randy Shoemaker and Dr. John
Erpelting."

BASE COUNT 134 a 17 g 38 t

ORIGIN

Query Match 3 %; Score 53.6; DB 10; Length 206;
Best Local Similarity 66.4%; Pred.No. 14;
Matches 77; Conservative 0; Mismatches 39; Indels 0; Gaps 0;

Dy 1159 TCCCTTCATGAAGTAGAGAAGGGGCTCCTCCACATATTCTCTCGTGCGCT 1218
Db 19 TTGCCTATTGAAATTGTCTTAAAAAGGTTCAACAGTAATGTTACTCTTGATAATCA 78
Dy 1219 CTCCTTTATCACCTTTAAGCATAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1274
Db 79 AGCCCTCATTTTCACCTTTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 134

RESULT 14
CN5006MT/c

LOCUS 889 bp DNA linear GSS 03-JUN-1999
DEFINITION Drosophila melanogaster genome survey sequence TEH3 end of BAC #
BACR14K09 of RPCL-98 library from Drosophila melanogaster (fruit
fly), genomic survey sequence.

AL065765
AL065765.1 GI:4944645
GSS.
Drosophila melanogaster.
Drosophila melanogaster.
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
Empidoidea; Drosophilidae; Drosophila.
1 (bases 1 to 889)
Genoscope.
Direct Submission
Submitted (02-JUN-1999) Genoscope - Centre National de Sequencage :
BP 191 91006 EVRY cedex - FRANCE (E-mail : seqdef@genoscope.cns.fr
Web : www.genoscope.cns.fr)

COMMENT
Determination of this BAC-end sequence was carried out as part of a
collaboration with the Berkeley Drosophila Genome Project (BDGP).
The BDGP is constructing a physical map of the Drosophila
melanogaster genome using these BACs. For further information
please see http://www.fruitfly.org The BDGP Drosophila
melanogaster BAC library was prepared by Kazuo Ooegawa and
Aaron Mammoser at Pieter de Jong's laboratory in the Department of
Cancer Genetics at the Roswell Park Cancer Institute in Buffalo,
NY. The library is named RPCL-98 and was constructed by partial
EcoRI digestion of Drosophila DNA provided by the BDGP from the
isogenic strain Y2; cn bw sp, the same strain used for the BDGP's
P1 and EST libraries. A more detailed description of the library
and how to order individual BAC clones, the entire library, or
filters for hybridization from the BACPAC Resource Center can be
found at http://bacpac.med.buffalo.edu/drosophila_bac.htm.

JOURNAL

REFERENCE
AUTHORS
TITLE
JOURNAL

SOURCE
Source

FEATURES
Location/Qualifiers
1..889
/organism="Drosophila melanogaster"
/db_xref="taxon:7227"
/clone="BACR14K09"
/clone_lib="RPCL-98"

BASE COUNT	307 a	36 c	68 g	252 t	226 others
ORIGIN	/note="end : TE13"				
Query Match	3.3%; Score 53.4; DB 17; Length 889;				
Best Local Similarity	44.9%; Pred. No. 9.5;				
Matches	89; Conservative 24; Mismatches 85; Indels 0; Gaps 0;				
Qy	1077	ANGCAGTGGGGTTACCGCCTTCTCTCATCTCATATAGAACCTTTCCCATAGGAAC	1136		
Db	478	AGGTWMAVTTTCTCTCDVTTTTCCTCYMAAAWATTSHCYTTTCTCTTACCYTC	419		
Qy	1137	CCCAACAGGTAACATAGAAATTTCCCTTCATGAGAGTAGAGAAAGGGGTCTCCCA	1196		
Db	418	AACYTTWTTTAAWTTTMTTCTCCTCATATCAAAAAAATTCATATTTTMTTAA	359		
Qy	1197	CAVATTTCTCTTCTCTGCTGCTCTCTCTTATCATCTTTAAGCATAAAAA	1256		
Db	358	TTTATATTTTATCTTCTTHYYMAWTTAAVAAACATAAAAAANAANA	299		
Qy	1257	AAAAAAAAAAAAAAAAAAAA	1274		
Db	298	AAAAAAAAAAAAAAAAAAAA	281		
RESULT 15					
CNS0118D/c					
LOCUS	796 bp DNA linear GSS 26-JUL-1999				
DEFINITION	Drosophila melanogaster genome survey sequence T7 end of BAC				
VERSION	BACN05J08 of DrosBAC library from Drosophila melanogaster (fruit				
KEYWORDS	fly), genomic survey sequence.				
ACCESSION	AL099943				
VERSION	AL099943.1 GI:5611554				
SOURCE	GSS.				
ORGANISM	Drosophila melanogaster.				
REFERENCE	Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Preyigota;				
AUTHORS	Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;				
TITLE	Ephyridioidea; Drosophilidae; Drosophila.				
JOURNAL	1 (bases 1 to 796)				
COMMENT	Genoscope. Direct Submission Submitted (23-JUL-1999) Genoscope - Centre National de Sequencage : BP 191 91006 EVRY cedex - FRANCE (E-mail : seque@genoscope.cns.fr - Web : www.genoscope.cns.fr) Determination of this BAC-end sequence was carried out as part of a collaboration of this BAC-end sequence was carried out as part of a http://www.edgp.ebi.ac.uk - This Drosophila melanogaster BAC library (Dros BAC) was made by Alain Billoud at CEPH (Centre d'Etude du Polymorphisme Humain) with funding provided by a MRC project grant. The DNA was prepared from embryos by Alain Bucheton and Genevieve Payan. It has been constructed in the vector pbeloBAC11.				
FEATURES	Location/Qualifiers				
SOURCE	1..796				
	/organism="Drosophila melanogaster"				
	/db_xref="taxon:7227"				
	/clone="BACN05J08"				
	/clone_1lb="DrosBAC"				
	/plasmid="pbeloBAC11"				
	/note="end : T7"				
BASE COUNT	33 a	20 c	70 g	537 t	136 others
ORIGIN					
Query Match	3.3%; Score 52.4; DB 17; Length 796;				
Best Local Similarity	29.6%; Pred. No. 15;				
Matches	58; Conservative 66; Mismatches 72; Indels 0; Gaps 0;				
Qy	1079	GTCAATGGGTTTACCGCTTCTCACTCATATAGAACACCTTCCCATAGGAACCC	1138		
Db	701	SBCCCKGTGCKSCCCCTCTCMCCCTCCCMKCKCKTMYMKTMMKMYMKMKMKCK	642		
Qy	1139	CAACAGGTAACTAGAAATTTCCCTTCATGAGAGTAGAGAAAGGGGTCTCTCCACA	1198		


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Db      641 KMMKMGAMMMRRMKGTSTMCSCGTMYKMMMMMAAAMGTBASTMYTMMCMKBC 582
Qy      1199 TAATTCTCTTCCTGTGCTCTCTCTTATCAGCTTTAAGCATPAAAAA 1258
Db      581 YCMGGAAMKKTSTTGHKTTMMMMMAAAMKTTCTMMAAAAAAAMKAAAAA 522
Qy      1259 AAAAAAAAAAAAAA 1274
Db      521 AAAAAAAAAAAAAA 506

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Search completed: May 28, 2003, 14:14:08
 Job time : 2498 secs

GenCore version 5.1.4 p5 4578
Copyright (c) 1993 - 2003 Comugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: May 28, 2003, 21:20:14 ; Search time 256 Seconds

(without alignments)
8314.786 Million cell updates/sec

Title: US-09-901-938-1

Perfect score: 1612

Sequence: 1 cggcaaaaaggagggagatcc.....tgaagcactctgtctgct 1612

Scoring table:

IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 828747 seqs, 660231138 residues

Total number of hits satisfying chosen parameters: 1657494

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA.*

1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq:*
2: /cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq:*
3: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq:*
4: /cgn2_6/ptodata/1/pubpna/US06_PUBCOMB.seq:*
5: /cgn2_6/ptodata/1/pubpna/US07_NEW_PUB.seq:*
6: /cgn2_6/ptodata/1/pubpna/PCTUS_PUBCOMB.seq:*
7: /cgn2_6/ptodata/1/pubpna/US08_NEW_PUB.seq:*
8: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq:*
9: /cgn2_6/ptodata/1/pubpna/US09_NEW_PUB.seq:*
10: /cgn2_6/ptodata/1/pubpna/US09_PUBCOMB.seq:*
11: /cgn2_6/ptodata/1/pubpna/US10_NEW_PUB.seq:*
12: /cgn2_6/ptodata/1/pubpna/US10_PUBCOMB.seq:*
13: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq:*
14: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1612	100.0	1612	9	US-09-901-938-1
2	1238.4	76.8	1240	10	US-09-731-872-57
3	1237.4	76.8	1239	9	US-09-924-340-25
4	1237.4	76.8	1239	9	US-09-924-600A-25
5	1237.4	76.8	1239	9	US-10-000-489-25
6	1211	75.1	1211	10	US-09-754-634A-1
7	798	49.5	996	9	US-09-992-598-510
8	798	49.5	996	9	US-09-989-293A-510
9	798	49.5	996	9	US-09-989-735-510
10	798	49.5	996	9	US-09-990-444-510
11	798	49.5	996	9	US-09-989-730-510
12	798	49.5	996	9	US-09-990-436-510
13	798	49.5	996	9	US-09-991-187-510
14	798	49.5	996	9	US-09-989-687-510
15	798	49.5	996	9	US-09-989-734-510
16	798	49.5	996	9	US-10-028-072-265
17	798	49.5	996	9	US-09-997-653-510
18	798	49.5	996	9	US-09-993-667-510
19	798	49.5	996	9	US-10-121-049-265

20	798	49.5	996	9	US-10-123-904-265	Sequence 265, App
21	798	49.5	996	9	US-10-140-470-265	Sequence 265, App
22	798	49.5	996	9	US-09-990-438-510	Sequence 510, App
23	798	49.5	996	9	US-09-990-562-510	Sequence 510, App
24	798	49.5	996	9	US-09-997-428-510	Sequence 510, App
25	798	49.5	996	9	US-09-997-666-510	Sequence 510, App
26	798	49.5	996	9	US-10-175-746-265	Sequence 265, App
27	798	49.5	996	9	US-10-176-918-265	Sequence 265, App
28	798	49.5	996	9	US-10-176-921-265	Sequence 265, App
29	798	49.5	996	9	US-09-990-711-510	Sequence 510, App
30	798	49.5	996	9	US-10-137-865-265	Sequence 265, App
31	798	49.5	996	9	US-10-140-474-265	Sequence 265, App
32	798	49.5	996	9	US-10-142-431-265	Sequence 265, App
33	798	49.5	996	9	US-10-143-114-265	Sequence 265, App
34	798	49.5	996	9	US-09-989-726-510	Sequence 510, App
35	798	49.5	996	9	US-10-140-002-265	Sequence 265, App
36	798	49.5	996	9	US-09-990-437-510	Sequence 510, App
37	798	49.5	996	9	US-09-998-156-510	Sequence 510, App
38	798	49.5	996	9	US-10-142-419-265	Sequence 265, App
39	798	49.5	996	9	US-09-991-157-510	Sequence 510, App
40	798	49.5	996	9	US-09-991-172-510	Sequence 510, App
41	798	49.5	996	9	US-09-997-514-510	Sequence 510, App
42	798	49.5	996	9	US-09-997-573-510	Sequence 510, App
43	798	49.5	996	9	US-10-123-262-265	Sequence 265, App
44	798	49.5	996	9	US-10-142-423-265	Sequence 265, App
45	798	49.5	996	9	US-09-990-443-510	Sequence 510, App

ALIGNMENTS

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RESULT 1
US-09-901-938-1
Sequence 1, Application US/09901938
Patent No. US20020156001A1
GENERAL INFORMATION:
APPLICANT: ECONS, Michael
APPLICANT: WHITE, Kenneth
APPLICANT: STROM, Tim
APPLICANT: MEITINGER, Thomas
TITLE OF INVENTION: NOVEL FIBROBLAST GROWTH FACTOR (FGF23) AND METHODS FOR USE
FILE REFERENCE: 053884-5001
CURRENT APPLICATION NUMBER: US/09/901,938
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: 60/219,137
PRIOR FILING DATE: 2000-07-19
NUMBER OF SEQ ID NOS: 34
SOFTWARE: PatentIn version 3.0
SEQ ID NO 1
LENGTH: 1612
TYPE: DNA
ORGANISM: Homo sapiens
US-09-901-938-1

Query Match      100.0%; Score 1612; DB 9; Length 1612;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1612; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CGGCAAAAAGGAGGAGATCGATCGATCCGACACAGGACTTGAAGGAGAAAG 60
DB 1 CGGCAAAAAGGAGGAGATCGATCGATCCGACACAGGACTTGAAGGAGAAAG 60
QY 61 AAAAGCCAGTAAGGCTGGGCGAGAGATCCGACAGAGTTCAGGTTCAATCTCA 120
DB 61 AAAAGCCAGTAAGGCTGGGCGAGAGATCCGACAGAGTTCAGGTTCAATCTCA 120
QY 121 GCACCAAGCCTCAGACGAGGAGATGTTGGGAGGCTTCAGGCTTGGGCTGTG 180
DB 121 GCACCAAGCCTCAGACGAGGAGATGTTGGGAGGCTTCAGGCTTGGGCTGTG 180
QY 181 CCTGTGAGCGCTTCAGACAGATGAGGCTTCAGAGCTTATCCCATGCTCCCACTGC 240
DB 181 CCTGTGAGCGCTTCAGACAGATGAGGCTTCAGAGCTTATCCCATGCTCCCACTGC 240

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QY	261	CTGATCCACCTGTACACAGCCACAGCCAGGAAACAGCTACACCTCGAGATCCCAAGAAAT	320
Db	241	CTGATCCACCTGTACACAGCCACAGCCAGGAAACAGCTACACCTCGAGATCCCAAGAAAT	300
QY	321	GCCCATGTGGAATGGCGCACCCCATCAGCAATCTACAGTGCCTGTATGATCAGATCAGAG	380
Db	301	GCCCATGTGGAATGGCGCACCCCATCAGCAATCTACAGTGCCTGTATGATCAGATCAGAG	360
QY	381	GATGCTGGCTTTGTGGGTATTAACAGGTGTGATGTAGCGAAGATACCTCTGACATGGAATTC	440
Db	361	GATGCTGGCTTTGTGGGTATTAACAGGTGTGATGTAGCGAAGATACCTCTGACATGGAATTC	420
QY	441	AGAGGCAACATTTTTGTGATCAACATATTTGCAGACCCGGAGAACTGACAGTTTCCAACACAG	500
Db	421	AGAGGCAACATTTTTGTGATCAACATATTTGCAGACCCGGAGAACTGACAGTTTCCAACACAG	480
QY	501	ACGCTGTAAAAACGGGTACAGACGTCTACCATCTCTCTAGATATCATCTTCTGTCAGTCTTG	560
Db	481	ACGCTGTAAAAACGGGTACAGACGTCTACCATCTCTCTAGATATCATCTTCTGTCAGTCTTG	540
QY	561	GACCGGAGGAAAGAGAGCCCTTCTCTCGACAGGACATGAACCCACCCCGTATCTCCAGTTCCG	620
Db	541	GACCGGAGGAAAGAGAGCCCTTCTCTCGACAGGACATGAACCCACCCCGTATCTCCAGTTCCG	600
QY	621	TCCCGAGGAAACAGATCCCTTAATTCATCTTCAACACCCCAATACCAACGACGACACACC	680
Db	601	TCCCGAGGAAACAGATCCCTTAATTCATCTTCAACACCCCAATACCAACGACGACACACC	660
QY	681	CGGAGCCCGGAGACAGATCGGAACGGGACCCCTTGAACGTGCTGAAGCCCGGACCCCGG	740
Db	661	CGGAGCCCGGAGACAGATCGGAACGGGACCCCTTGAACGTGCTGAAGCCCGGACCCCGG	720
QY	741	ATGACCCCGGACCCCGGACCTCTCTGTTCACAGGAGTCCCGAGCGCCGAGGACAAACAGCCCG	800
Db	721	ATGACCCCGGACCCCGGACCTCTCTGTTCACAGGAGTCCCGAGCGCCGAGGACAAACAGCCCG	780
QY	801	ATGGCACAATGACCCATTAGGGGTGTCAAGGGGCGGTGAGTGAACAACGACGCTGGGGGA	860
Db	781	ATGGCACAATGACCCATTAGGGGTGTCAAGGGGCGGTGAGTGAACAACGACGCTGGGGGA	840
QY	861	ACGGGCCCCGGAAGGCTGCGCGCCCTTGCCCAAGTTCACTTAGGGTGGCTGGAAGGGCACCC	920
Db	841	ACGGGCCCCGGAAGGCTGCGCGCCCTTGCCCAAGTTCACTTAGGGTGGCTGGAAGGGCACCC	900
QY	921	CTCTTTAAACCATCCCTCAGCAACAGAGCTCTTCCCAAGAACAGAGTCCCTTGAAGTTC	980
Db	901	CTCTTTAAACCATCCCTCAGCAACAGAGCTCTTCCCAAGAACAGAGTCCCTTGAAGTTC	960
QY	981	CGAGAGATGGAAAGGTGACAGGGGCATGTATGAAATTGTGCTTCTCTGGAGTCCCTTC	1040
Db	961	CGAGAGATGGAAAGGTGACAGGGGCATGTATGAAATTGTGCTTCTCTGGAGTCCCTTC	1020
QY	1041	CACAGGAGGTCTGTGAGAAACCAACCTTTGAGGCGCCCAAGTCAAGGGGTTTCAACCGCTTC	1100
Db	1021	CACAGGAGGTCTGTGAGAAACCAACCTTTGAGGCGCCCAAGTCAAGGGGTTTCAACCGCTTC	1080
QY	1101	CTCACTCCATATTAAGAACCTTTTCCCAATAGAAAACCCCAACAGGTAAACTGAAATTTTC	1160
Db	1081	CTCACTCCATATTAAGAACCTTTTCCCAATAGAAAACCCCAACAGGTAAACTGAAATTTTC	1140
QY	1161	CCCTTCATGAAGGTAGAGAGAGGGGTCTCTCCCAACATATTTCTCTTCTCTTGTGCTCT	1220
Db	1141	CCCTTCATGAAGGTAGAGAGAGGGGTCTCTCCCAACATATTTCTCTTCTCTTGTGCTCT	1200
QY	1221	CCTCTTTATCATCTTTTAAAGCATAAAAAATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	1260
Db	1201	CCTCTTTATCATCTTTTAAAGCATAAAAAATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	1240

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1  GENERAL INFORMATION:
2  APPLICANT: Bejani, Stephane
3  APPLICANT: Tanaka, Hiroaki
4  TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
5  FILE REFERENCE: 91.US2.REG
6  CURRENT APPLICATION NUMBER: US/09/924,340
7  CURRENT FILING DATE: 2001-08-06
8  PRIOR APPLICATION NUMBER: US 60/305,456
9  PRIOR FILING DATE: 2001-07-13
10 PRIOR APPLICATION NUMBER: US 60/302,277
11 PRIOR FILING DATE: 2001-06-29
12 PRIOR APPLICATION NUMBER: US 60/299,698
13 PRIOR FILING DATE: 2001-06-15
14 PRIOR APPLICATION NUMBER: US 60/293,574
15 PRIOR FILING DATE: 2001-05-25
16 NUMBER OF SEQ ID NOS: 112
17 SOFTWARE: JPatent
18 SEQ ID NO 25
19 LENGTH: 1239
20 TYPE: DNA
21 ORGANISM: Homo sapiens
22 FEATURE:
23 NAME/KEY: 5'UTR
24 LOCATION: 1..126
25 NAME/KEY: CDS
26 LOCATION: 127..879
27 NAME/KEY: 3'UTR
28 LOCATION: 880..1239
29 NAME/KEY: polyA_site
30 LOCATION: 1224..1239
31 US-09-924-340-25

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Query Match	76.8%	Score 1237.4;	DB 9;	Length 1239;
Best Local Similarity	99.9%;	Pred. No. 0;		
Matches 1238;	Conservative	0;	Mismatches	1; Indels 0; Gaps 0;

Qy	21	AGCTAGGATCTCTCAACACAGGCTACTTGCAGAGGAGAAAGAAAAAGGCGATGAAGCCCTGG	80
Db	1	AGCTAGGATCTCTCAACACAGGCTACTTGCAGAGGAGAAAGAAAAAGGCGATGAAGCCCTGG	60
Qy	81	GCCAGAGAGTCCCGACAGAGGTGTCAATCTCAGCACCCACTCAGACAG	140
Db	61	GCCAGAGAGTCCCGACAGAGGTGTCAATCTCAGCACCCACTCAGACAG	120
Qy	141	GGCACGATGTTGGGGGCCCGCTCAGGCTCTGGGTCTGTGTCTTGTGTACAGGTCTGCAGC	200
Db	121	GGCACGATGTTGGGGGCCCGCTCAGGCTCTGGGTCTGTGTCTTGTGTACAGGTCTGCAGC	180
Qy	201	ATGAGCGCTCCACAGGCTTATCCCAATGCCCTCCCACTGTGTGGCTCCACTGGGCTGGC	260
Db	181	ATGAGCGCTCCACAGGCTTATCCCAATGCCCTCCCACTGTGTGGCTCCACTGGGCTGGC	240
Qy	261	CTGATCCACCTGTACACAGCCACAAGCAGAAACAGTACCACTGCAGATCCACAAGAT	320
Db	241	CTGATCCACCTGTACACAGCCACAAGCAGAAACAGTACCACTGCAGATCCACAAGAT	300
Qy	321	GGCCATGTGATGGCGCACCCCATCAGACCATCTACGTGCCCTGATGATCAAGTCAGAG	380
Db	301	GGCCATGTGATGGCGCACCCCATCAGACCATCTACGTGCCCTGATGATCAAGTCAGAG	360
Qy	381	GATGCTGGCTTTGTGTGTGATTAACAGGTGTGATGACGAAAGATACCTCTGCATGAGATTTC	440
Db	361	GATGCTGGCTTTGTGTGTGATTAACAGGTGTGATGACGAAAGATACCTCTGCATGAGATTTC	420
Qy	441	AGAGGCAACATTTTGGATCAACATATTTGACCCCGGAGAACTGCAGGTTCCAAACCCAG	500
Db	421	AGAGGCAACATTTTGGATCAACATATTTGACCCCGGAGAACTGCAGGTTCCAAACCCAG	480
Qy	501	ACGCTGAGAAAACGGGTACGACGTCTACCTCTCCTCAGATACATTCTCGTCAAGCTTG	560
Db	481	ACGCTGAGAAAACGGGTACGACGTCTACCTCTCCTCAGATACATTCTCGTCAAGCTTG	540
Qy	561	GGCCGGGAGAGAGGCTTCTCTGCAGGACATGAACCCCGGTACTCCAGTTCTTG	620

Db	541	GGCCCGGGGAAGAGGCGCTTCTCTCCAGGCATGAAACCCACCCCGTACTCCAGTTCTCG	600
Qy	621	TCCCGGAGGAACGAGATCCCCCTTAATTCATTGAACACCCCCCATPACAGGGCGGACACC	680
Db	601	TCCCGGAGGAACGAGATCCCCCTTAATTCATTGAACACCCCCCATPACAGGGCGGACACC	660
Qy	681	CGGAGCGCCGAGAGACGACTCGGAGCGGGACCCCTGAAACGTGCTGAAAGCCCCGGGCGCGG	740
Db	661	CGGAGCGCCGAGAGACGACTCGGAGCGGGACCCCTGAAACGTGCTGAAAGCCCCGGGCGCGG	720
Qy	741	ATGACCCCGCGCCCGGCTCTGTTCACAGAGAGCTCCGAGCGCCGAGGACAAACAGCCCG	800
Db	721	ATGACCCCGCGCCCGGCTCTGTTCACAGAGAGCTCCGAGCGCCGAGGACAAACAGCCCG	780
Qy	801	ATGGCCTATGACCCATTAGGGGGTGGTCAAGGGGCGGTGAGTGAACACGACGCTGGGGGA	860
Db	781	ATGGCCTATGACCCATTAGGGGGTGGTCAAGGGGCGGTGAGTGAACACGACGCTGGGGGA	840
Qy	861	ACGGGCGCGGAAAGGTGGCGGCGCCCTTGCCAAAGTCAATCTAGGGTGGCTGGAAAGGCAAC	920
Db	841	ACGGGCGCGGAAAGGTGGCGGCGCCCTTGCCAAAGTCAATCTAGGGTGGCTGGAAAGGCAAC	900
Qy	921	CTCTTTAACCCATCCCTCAGCAACGAGCTCTCCCAAGAGACAGAGTCCCTTGAAGCTTC	980
Db	901	CTCTTTAACCCATCCCTCAGCAACGAGCTCTCCCAAGAGACAGAGTCCCTTGAAGCTTC	960
Qy	981	CGAGAGATGGGAAAGGTGACAGGGGCATGTATGAAATTGTGCTTCTCTGGGGTCCCTTC	1040
Db	961	CGAGAGATGGGAAAGGTGACAGGGGCATGTATGAAATTGTGCTTCTCTGGGGTCCCTTC	1020
Qy	1041	CACGAGAGTCTCTGTGAGAACCAACCTTTTAGGCCCAAGTCAATGGGGTTCAACCGCTTC	1100
Db	1021	CACGAGAGTCTCTGTGAGAACCAACCTTTTAGGCCCAAGTCAATGGGGTTCAACCGCTTC	1080
Qy	1101	CTCACTCCATATAGAACACCTTTCCTCAATAGAAACCCCAACAGGTAACTGAAATTTC	1160
Db	1081	CTCACTCCATATAGAACACCTTTCCTCAATAGAAACCCCAACAGGTAACTGAAATTTC	1140
Qy	1161	CCCTTCATGAAAGTAGAGAGAGGGGCTCTCCCAACATATTTCTTCTCTTGCTCTCT	1220
Db	1141	CCCTTCATGAAAGTAGAGAGAGGGGCTCTCCCAACATATTTCTTCTCTTGCTCTCT	1200
Qy	1221	CCTCTTTATCCTTTTAAAGCATAAAAA	1259
Db	1201	CCTCTTTATCCTTTTAAAGCATAAAAA	1239

RESULT 4
US-09-992-600A-25
Sequence 25, Application US/0992600A
Publication No. US2003027161A1
GENERAL INFORMATION:
APPLICANT: Benjamin, Stephane
TITLE OF INVENTION: HUMAN CDNAs AND PROTEINS AND USES THEREOF
FILE REFERENCE: 91.US4.DIV
CURRENT APPLICATION NUMBER: US/09/992,600A
CURRENT FILING DATE: 2001-11-13
PRIORITY APPLICATION NUMBER: US 09/924,340
PRIORITY FILING DATE: 2001-08-06
PRIORITY APPLICATION NUMBER: PCT/IB01/01715
PRIORITY FILING DATE: 2001-08-06
PRIORITY APPLICATION NUMBER: US 60/305,456
PRIORITY FILING DATE: 2001-07-13
PRIORITY APPLICATION NUMBER: US 60/302,277
PRIORITY FILING DATE: 2001-06-29
PRIORITY APPLICATION NUMBER: US 60/298,698
PRIORITY FILING DATE: 2001-06-15
PRIORITY APPLICATION NUMBER: US 60/293,574
PRIORITY FILING DATE: 2001-05-25
NUMBER OF SEQ. ID NOS: 114
SOFTWARE: JPatent

	SEQ ID NO 25	LENGTH: 1239
	TYPE: DNA	
	ORGANISM: Homo sapiens	
	FEATURE:	
	NAME/KEY: 5'UTR	
	LOCATION: 1..126	
	FEATURE:	
	NAME/KEY: CDS	
	LOCATION: 127..879	
	FEATURE:	
	NAME/KEY: 3'UTR	
	LOCATION: 880..1239	
	FEATURE:	
	NAME/KEY: polyA_site	
	LOCATION: 1224..1239	
	us-09-992-600A-25	
Query Match	76.8%; Score 1237.4; DB 9; Length 1239;	
Best Local Similarity	99.9%; Pred. No. 0;	
Matches 1238; Conservative	0; Mismatches 1; Indels 0; Gaps 0;	
Qy	21 AGTCAAGGATCCTCACAACGAGTATTTCAGAGGGAAGAAAAGCCAGTAAGGCTGG	80
Db	1 AGCTAGAGATCTCTACACAGACTACTTCCAAAGGAGAAAGAAAGCAAGTAAGGCTGG	60
Qy	81 GCCAGAGAGTCCCGACAGAGGTGCAGGTTTCATCTCAGACCCAGCCACTCAGAGCAG	140
Db	61 GCCAGAGAGTCCCGACAGAGGTGCAGGTTTCATCTCAGACCCAGCCACTCAGAGCAG	120
Qy	141 GGCACGATGTTGGGGGCCCCGCTCAGGCTCTGGGTCTGTGCTTGCTTGTCAGCGTCTGCAGC	200
Db	121 GGCACGATGTTGGGGGCCCCGCTCAGGCTCTGGGTCTGTGCTTGTCAGCGGTCTGCAGC	180
Qy	201 ATGAGCGTCTCAGAGCCTATCCCAATGCTCCCACTGCTCGGCTCAGCGTGGGGGTGGC	260
Db	181 ATGAGCGTCTCAGAGCCTATCCCAATGCTCTCCACTGCTGGCTCAGCGTGGGGGTGGC	240
Qy	261 CTGATCCACTGTACACAGCCACAGCCAGAAAGACTACCACTGCAGATCCACAAGAT	320
Db	241 CTGATCCACTGTACACAGCCACAGCCAGAAAGACTACCACTGCAGATCCACAAGAT	300
Qy	321 GGCATGTGATGCGCAGCCCATTCAGCCATCTCAGTGGCTTGATGATCAGATCAGAG	380
Db	301 GGCATGTGATGCGCAGCCCATTCAGCCATCTCAGTGGCTTGATGATCAGATCAGAG	360
Qy	381 GATGTGGCTTTGGGTGATTAACAGGTGTGATGAGCGAAGAAATACCTCTGATGATGATTC	440
Db	361 GATGTGGCTTTGGGTGATTAACAGGTGTGATGAGCGAAGAAATACCTCTGATGATGATTC	420
Qy	441 AGAGCAACATTTTGTGATCACACTATTTCAGCCCGAGACTGCAAGGTTCACACACAG	500
Db	421 AGAGCAACATTTTGTGATCACACTATTTCAGCCCGAGACTGCAAGGTTCACACACAG	480
Qy	501 ACGCTGAAAAAGGGGTACAGAGTACCACTCTCTCAGTACACTTCTTGATGATGCTG	560
Db	481 ACGCTGAAAAAGGGGTACAGAGTACCACTCTCTCAGTACACTTCTTGATGATGCTG	540
Qy	561 GGGCGGGGAGAGAGAGCTTCTGTGCAGGACATGAACCAACCCCGTACTCCAGTTCTTG	620
Db	541 GGGCGGGGAGAGAGAGCTTCTGTGCAGGACATGAACCAACCCCGTACTCCAGTTCTTG	600
Qy	621 TCCCGAGAGAAACGAGATCCCTTAATTCACCTTGAACACCCCATACACAGGCGGACACCC	680
Db	601 TCCCGAGAGAAACGAGATCCCTTAATTCACCTTGAACACCCCATACACAGGCGGACACCC	660
Qy	681 CGAGCGCCGAGACGACTGCGAGCGGGACCCCTGAAAGTGTCTGAAGCCCGGCGCGG	740
Db	661 CGAGCGCCGAGACGACTGCGAGCGGGACCCCTGAAAGTGTCTGAAGCCCGGCGCGG	720
Qy	741 ATGACCCCGGCCCCGGGCTCTCTGTTCACAGAGACTCCGAGCGCCGAGACACAGCCCG	800
Db	721 ATGACCCCGGCCCCGGGCTCTCTGTTCACAGAGACTCCGAGCGCCGAGACACAGCCCG	780

Qy	801	ATGGCCAGTGAACCCATTAGGGGTGTGTACAGGGCCGTCGAGTGAACAAGCAACGCTGGGGGA	860
Db	781	ATGGCCAGTGAACCCATTAGGGGTGTGTAGGGCCGTCGAGTGAACAAGCAACGCTGGGGGA	840
Qy	861	ACGGGCCCCGGAAAGCTGCGCCCTTCGCCAAGTTCATTAGGGTGCCTGGAAAGGCACC	920
Db	841	ACGGGCCCCGGAAAGCTGCGCCCTTCGCCAAGTTCATTAGGGTGCCTGGAAAGGCACC	900
Qy	921	CTCTTTAACCCATCCCTCAGCAAAAAGAGCTCTTCCCAAGAACCAAGTCCCTTGAAGTTC	980
Db	901	CTCTTTAACCCATCCCTCAGCAAAAAGAGCTCTTCCCAAGAACCAAGTCCCTTGAAGTTC	960
Qy	981	CGAGATGGGAAAAGTGACACAGGGCATGTATGAAATTTGCTCTCTCTGGGGTCCCTTC	1040
Db	961	CGAGATGGGAAAAGTGACACAGGGCATGTATGAAATTTGCTCTCTCTGGGGTCCCTTC	1020
Qy	1041	CACAGAGAGTCTCTGTGGAACCAACTTTGAGGCCCAAGTCATCGGGTTTCAACGCCCTTC	1100
Db	1021	CACAGAGAGTCTCTGTGGAACCAACTTTGAGGCCCAAGTCATCGGGTTTCAACGCCCTTC	1080
Qy	1101	CTCACTCCATATAGAACACCTTTCGCCAATAGGAAACCCCAACAGGTAACTAGAAATTTTC	1160
Db	1081	CTCACTCCATATAGAACACCTTTCGCCAATAGGAAACCCCAACAGGTAACTAGAAATTTTC	1140
Qy	1161	CCCTTCATGAAGGTAGAGAAAGGGGTCTCTCCCAATATTTTCTCTCTGTGACTCT	1220
Db	1141	CCCTTCATGAAGGTAGAGAAAGGGGTCTCTCCCAATATTTTCTCTCTGTGACTCT	1200
Qy	1221	CGCTTTATCATCTTTAAGCATAAAAAATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	1259
Db	1201	CGCTTTATCATCTTTAAGCATAAAAAATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	1239

RESULT 5
 US-10-000-489-25
 Sequence 25, Application US/10000489
 Publication No. US20030092011A1
 GENERAL INFORMATION:
 APPLICANT: Benjamin, Stephane
 APPLICANT: Tanaka, Hiroaki
 TITLE OF INVENTION: HUMAN CNMNS AND PROTEINS AND USES THEREOF
 FILE REFERENCE: 91.US6.DIV
 CURRENT APPLICATION NUMBER: US/10/000,489
 CURRENT FILING DATE: 2001-11-14
 PRIOR APPLICATION NUMBER: US 09/924,340
 PRIOR FILING DATE: 2001-08-06
 PRIOR APPLICATION NUMBER: PCT/IB01/01715
 PRIOR FILING DATE: 2001-08-06
 PRIOR APPLICATION NUMBER: US 60/305,456
 PRIOR FILING DATE: 2001-07-13
 PRIOR APPLICATION NUMBER: US 60/302,277
 PRIOR FILING DATE: 2001-06-29
 PRIOR APPLICATION NUMBER: US 60/298,698
 PRIOR FILING DATE: 2001-06-15
 PRIOR APPLICATION NUMBER: US 60/293,574
 PRIOR FILING DATE: 2001-05-25
 NUMBER OF SEQ ID NOS: 112
 SOFTWARE: JPatent
 SEQ ID NO 25
 LENGTH: 1239
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: 5'UTR
 LOCATION: 1..126
 NAME/KEY: CDS
 LOCATION: 127..879
 NAME/KEY: 3'UTR
 LOCATION: 880..1239
 NAME/KEY: polyA_site
 LOCATION: 1224..1239
 US-10-000-489-25

Query Match	76.8%	Score 1237.4;	DB 9;	Length 1239;
Best Local Similarity	99.9%	Pred. No. 0;		
Matches 1238; Conservative	0;	Mismatches 1;	Indels 0;	Caps 0;

QY	21	AGCTAGGATCTCTCAACACAGCTACTTTGCAAGGAGAAAGAAAGGCGAGTAAGGCTGG	80
Db	1	AGTCTAAGATCTCTCAACACAGCTACTTTGCAAGGAGAAAGAAAGGCGAGTAAGGCTGG	60
QY	81	GCACAGAGAGTCCCGACAGAGATGTCAAGTTTCAATCTGACACACAGCCATCTCAGACAG	140
Db	61	GCACAGAGAGTCCCGACAGAGATGTCAAGTTTCAATCTGACACACAGCCATCTCAGACAG	120
QY	141	GGACGAGATGTTGGGGGGGGCGGCTCAGGCTCTGGGCTGTGGCTTGGTGCAAGGCTCTGGACG	200
Db	121	GGACGAGATGTTGGGGGGGGCGGCTCAGGCTCTGGGCTGTGGCTTGGTGCAAGGCTCTGGACG	180
QY	201	ATGAGCGTCTCTCAGAGGCTTATCCCAATGCTCTCCCACTCTCGGCTCCAGCTGGGGTGGC	260
Db	181	ATGAGCGTCTCTCAGAGGCTTATCCCAATGCTCTCCCACTCTCGGCTCCAGCTGGGGTGGC	240
QY	261	CTGATTCACCTCTGTACACAGCCACAGCCAGAGAACGTTACCACTTGACATTCACAAGAT	320
Db	241	CTGATTCACCTCTGTACACAGCCACAGCCAGAGAACGTTACCACTTGACATTCACAAGAT	300
QY	321	GGCCATGTGATGGCGACCCCATCTAGACCATCTACAGGCGCTGATGATGTATGCATCAGAC	380
Db	301	GGCCATGTGATGGCGACCCCATCTAGACCATCTACAGGCGCTGATGATGTATGCATCAGAC	360
QY	381	GATGCTGAGCTTTGTGTGATTAAGGTGTGATGACAGAGATACCTCTGCATGTGATTTTC	440
Db	361	GATGCTGAGCTTTGTGTGATTAAGGTGTGATGACAGAGATACCTCTGCATGTGATTTTC	420
QY	441	AGAAGCAACATTTTGTGATTAACAATACTTTTCACCCGAGAAATCTGACAGTTTCCAAACAG	500
Db	421	AGAAGCAACATTTTGTGATTAACAATACTTTTCACCCGAGAAATCTGACAGTTTCCAAACAG	480
QY	501	ACGCTGAGAAAAAGGGGTACAGAGCTACAGCACTCCCTCAGTATCACTTCTGTGCTAGTCTG	560
Db	481	ACGCTGAGAAAAAGGGGTACAGAGCTACAGCACTCCCTCAGTATCACTTCTGTGCTAGTCTG	540
QY	561	GGCGGGGCGAAGAGAGGCTTCTGCGCAGGCGATGAACCAACCCCGTACTCCCAATTCTCTG	620
Db	541	GGCGGGGCGAAGAGAGGCTTCTGCGCAGGCGATGAACCAACCCCGTACTCCCAATTCTCTG	600
QY	621	TCCCGAGAGAACAGAGATCCCCCTTAATTTCACTTCAACACCCCATATACAGGCGGCAACAC	680
Db	601	TCCCGAGAGAACAGAGATCCCCCTTAATTTCACTTCAACACCCCATATACAGGCGGCAACAC	660
QY	681	CGAGAGCGCGAGAGACGACTCGAGCGGAGACCCCGTGAACGTGCTGAAGCCCGGGCCGG	740
Db	661	CGAGAGCGCGAGAGACGACTCGAGCGGAGACCCCGTGAACGTGCTGAAGCCCGGGCCGG	720
QY	741	ATGACCCCGGCGCGGCTTCTGTGTCACAGAGCTTCCGAGCGCGCGAGAGACAACGCCG	800
Db	721	ATGACCCCGGCGCGGCTTCTGTGTCACAGAGCTTCCGAGCGCGCGAGAGACAACGCCG	780
QY	801	ATGAGCCAGTACCATTTAAGGGGTGTCAAGGGCGGGTCAAGTGAACAACGCACTGTGGGGGA	860
Db	781	ATGAGCCAGTACCATTTAAGGGGTGTCAAGGGCGGGTCAAGTGAACAACGCACTGTGGGGGA	840
QY	861	ACGGGGCCCGGAGAGGCTGCGGCGCCCTTGGCAAGTTCACTTAAGGTGCGCTGGAAAGGCAAC	920
Db	841	ACGGGGCCCGGAGAGGCTGCGGCGCCCTTGGCAAGTTCACTTAAGGTGCGCTGGAAAGGCAAC	900
QY	921	CTCTTTAACCATCTCTCAGCAAAACGCAAGCTTTTCCAGAGACAGAGTCCCTTGAAGTTTC	980
Db	901	CTCTTTAACCATCTCTCAGCAAAACGCAAGCTTTTCCAGAGACAGAGTCCCTTGAAGTTTC	960
QY	981	CGAGAGATGGGAAAGGTGACAGGGGCGATGTATGGAAATTTGCTCTCTCTGGGGTCCCTTC	1040
Db	961	CGAGAGATGGGAAAGGTGACAGGGGCGATGTATGGAAATTTGCTCTCTCTGGGGTCCCTTC	1020

QY 1041 CACAGAGGTCCTGTGAGAACCACTTTAGGCCCAAGTATGAGGGTTTCAACGCGCTTC 1100
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Db 1021 CACAGGAGGTCCTGTGAGAACCACTTTAGGCCCAAGTATGAGGGTTTCAACGCGCTTC 1080
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QY 1101 CTCACCTCATATAGAACACCTTTCCCAATAGAAACCCCAACAGGTAACTAGAAATTC 1160
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Db 1081 CTCACCTCATATAGAACACCTTTCCCAATAGAAACCCCAACAGGTAACTAGAAATTC 1140
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QY 1161 CCCTTCATGAGAGTAGAGAGAGGGGTCTCCCAACATATTTCTCTTGTGCTCT 1220
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Db 1141 CCCTTCATGAGAGTAGAGAGAGGGGTCTCTCCCAACATATTTCTCTTGTGCTCT 1200
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QY 1221 CCCTTCATGAGAGTAGAGAGAGGGGTCTCTCCCAACATATTTCTCTTGTGCTCT 1259
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Db 1201 CCCTTCATGAGAGTAGAGAGAGGGGTCTCTCCCAACATATTTCTCTTGTGCTCT 1239
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RESULT 6
US-09-754-634A-1
; Sequence 1, Application US/09754634A
; Patent No. US20010044525A1
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
; TITLE OF INVENTION: RGF HOMOLOG ZEPF12
; FILE REFERENCE: 00-02
; CURRENT APPLICATION NUMBER: US/09/754,634A
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/174,582
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1211
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (115)...(870)
US-09-754-634A-1
Query Match 75.1%; Score 1211; DB 10; Length 1211;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1211; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 93 CCGACAGAGAGTGTCAAGTTTCAATCTGACACAGCACTCAGACAGGAGCAGATGTTG 152
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QY 213 AGAGCCTATCCCAATGCTCCCACTGCTGGGCTCCAGCTGGGGTGGCTGATCCACTG 272
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Db 181 AGAGCCTATCCCAATGCTCCCACTGCTGGGCTCCAGCTGGGGTGGCTGATCCACTG 240
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QY 273 TACACAGCCACAGCCAGAAAGCTTACCACTGAGATCCACAGAAATGGCCATGTGAT 332
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Db 241 TACACAGCCACAGCCAGAAAGCTTACCACTGAGATCCACAGAAATGGCCATGTGAT 300
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QY 333 GGGGCAACCCATCAGACATCTTACAGTCCCTGATGATCATGATGAGAGATGCTGCTT 392
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Db 301 GGGGCAACCCATCAGACATCTTACAGTCCCTGATGATCATGATGAGAGATGCTGCTT 360
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QY 393 GTGTGATTTACAGGTGTGATGAGAGAAAGTACTCTGATGATTTTCAAGGCAATTT 452
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Db 361 GTGTGATTTACAGGTGTGATGAGAGAAAGTACTCTGATGATTTTCAAGGCAATTT 420
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QY 453 TTGTGATCAACTATTTGACCCGAGAACTGAGGTTCCAAACAGACGCTGGAAC 512
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QY 693 GAGACTCGAGAGGAGACCCCTGAACTGTGTAAGCCCGGGCCGGAGTACCCCGGCG 752
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Db 661 GAGACTCGAGAGGAGACCCCTGAACTGTGTAAGCCCGGGCCGGAGTACCCCGGCG 720
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Db 721 CCGGCTCTGTTCACAGAGCTCCCGAGCGCGAGACAAAGCCGATGCGCATGAC 780
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QY 1233 TTTTAAAGATA 1243
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RESULT 7
US-09-992-598-510
; Sequence 510, Application US/09992598
; Patent No. US20020160384A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerlitsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher

APPLICANT: Gurney, Austin L.
APPLICANT: KJaviin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C20
CURRENT FILING DATE: US/09/992,598
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
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PRIOR FILING DATE: 1998-06-18
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PRIOR APPLICATION NUMBER: 60/090355
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090429
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PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090435
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090444
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090445
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090472
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090535
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090540

Query Match	49.5%	Score 798	DB 9	Length 996
Best Local Similarity	100.0%	Pred. No.	2.3e-216	
Matches 798	Conservative 0	Mismatches 0	Indels 0	Gaps 0

Db	619	CCTGAGTACATTCCTGAGTACGCTGAGCCGGAGGAGAGAGGCTTCTGCGCAGGATG	678
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Oy	654	AACACCCCATACCAACGACGCGGCAACCCGGAGCCCGAGGACGACTCGAGCGGGACCCC	713
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Oy	714	CTGAACGTCGTAAGGCCCTCGGGCCCGGATGACCCCGGCCCTCTGTTCAACAAGAG	773
Db	799	CTGAACGTCGTAAGGCCCTCGGGCCCGGATGACCCCGGCCCTCTGTTCAACAAGAG	855
Oy	774	CTCCCGAGCGCCGAGGACAACAGCCCATGTGCGCAGTACCATTTAAGGGTGTGACGGGC	833
Db	859	CTCCCGAGCGCCGAGGACAACAGCCCATGTGCGCAGTACCATTTAAGGGTGTGACGGGC	918
Oy	834	GGTGAGAGTGAACAAGCAACGCTGCGGGGGAACGGGCCCGGAAGGCTGCGGCCCTTTCGCAAG	893
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Oy	894	TTCACTAGAGGTGCTG 911	
Db	979	TTCACTAGAGGTGCTG 996	

RESULT 8
 US-09-989-293A-510
 : Sequence 510. Application US/09989293A
 Patent No. US20020177164A1
 GENERAL INFORMATION:
 APPLICANT: Ashkenazi, Avi J.
 APPLICANT: Baker, Kevin P.
 APPLICANT: Botstein, David
 APPLICANT: Desnoyers, Luc
 APPLICANT: Eaton, Dan L.
 APPLICANT: Ferrara, Napoleone
 APPLICANT: Fong, Sherman
 APPLICANT: Gerber, Hanspeter
 APPLICANT: Gerlitsen, Mary E.
 APPLICANT: Goddard, Audrey
 APPLICANT: Godowski, Paul J.
 APPLICANT: Grimaldi, J. Christopher
 APPLICANT: Gunney, Austin L.
 APPLICANT: Kijavlin, Ivar J.
 APPLICANT: Napier, Mary A.
 APPLICANT: Pan, James
 APPLICANT: Paoni, Nicholas F.
 APPLICANT: Roy, Margaret Ann
 APPLICANT: Stewart, Timothy A.
 APPLICANT: Tumas, Daniel
 APPLICANT: Matanabe, Colin K.
 APPLICANT: Williams, P. Mickey
 APPLICANT: Wood, William I.
 APPLICANT: Zhang, Zemin
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 TITLE OF INVENTION: Acids Encoding the Same
 FILE REFERENCE: P2730P1C66
 CURRENT APPLICATION NUMBER: US/09/989,293A
 CURRENT FILING DATE: 2001-11-20
 PRIOR APPLICATION NUMBER: 60/049787
 PRIOR FILING DATE: 1997-06-16
 PRIOR APPLICATION NUMBER: 60/062250
 PRIOR FILING DATE: 1997-10-17
 PRIOR APPLICATION NUMBER: 60/065186
 PRIOR FILING DATE: 1997-11-12
 PRIOR APPLICATION NUMBER: 60/065311
 PRIOR FILING DATE: 1997-11-13
 PRIOR APPLICATION NUMBER: 60/066770
 PRIOR FILING DATE: 1997-11-24
 PRIOR APPLICATION NUMBER: 60/075945

1	PRIOR APPLICATION NUMBER: 60/090355
2	PRIOR FILING DATE: 1998-06-23
3	PRIOR APPLICATION NUMBER: 60/090422
4	PRIOR FILING DATE: 1998-06-24
5	PRIOR APPLICATION NUMBER: 60/090431
6	PRIOR FILING DATE: 1998-06-24
7	PRIOR APPLICATION NUMBER: 60/090433
8	PRIOR FILING DATE: 1998-06-24
9	PRIOR APPLICATION NUMBER: 60/090443
10	PRIOR FILING DATE: 1998-06-24
11	PRIOR APPLICATION NUMBER: 60/090445
12	PRIOR FILING DATE: 1998-06-24
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14	PRIOR FILING DATE: 1998-06-24
15	PRIOR APPLICATION NUMBER: 60/090535
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26	PRIOR FILING DATE: 1998-06-25
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28	PRIOR FILING DATE: 1998-06-25
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31	PRIOR APPLICATION NUMBER: 60/090695
32	PRIOR FILING DATE: 1998-06-25
33	PRIOR APPLICATION NUMBER: 60/090696
34	PRIOR FILING DATE: 1998-06-25
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36	PRIOR FILING DATE: 1998-06-26
37	PRIOR APPLICATION NUMBER: 60/090863
38	PRIOR FILING DATE: 1998-06-26
39	PRIOR APPLICATION NUMBER: 60/091360
40	PRIOR FILING DATE: 1998-07-01
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44	PRIOR FILING DATE: 1998-07-01
45	PRIOR APPLICATION NUMBER: 60/091519
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47	PRIOR APPLICATION NUMBER: 60/091626
48	PRIOR FILING DATE: 1998-07-02
49	PRIOR APPLICATION NUMBER: 60/091633
50	PRIOR FILING DATE: 1998-07-02
51	PRIOR APPLICATION NUMBER: 60/091978
52	PRIOR FILING DATE: 1998-07-07
53	PRIOR APPLICATION NUMBER: 60/091992
54	PRIOR FILING DATE: 1998-07-07
55	PRIOR APPLICATION NUMBER: 60/092182
56	PRIOR FILING DATE: 1998-07-09

[illegible]

QY 294 AGCTACACCTGGAGATCCAGAAATGGCCATGTGATGGACGACCCCATCAGACCATC 353
Db 379 AGTACCACTGGAGATCCAGAAATGGCCATGTGATGGACGACCCCATCAGACCATC 438
QY 354 TACAGTCCCTGATGATCAGATCAGAGATGCTGCTTTGATGATTAAGGATGATG 413
Db 439 TACAGTCCCTGATGATCAGATCAGAGATGCTGCTTTGATGATTAAGGATGATG 498
QY 414 AGCAGAAATACCTCTGATGATGATTTGAGAGCAATTTTGGATCACTATTTGAC 473
Db 499 AGCAGAAATACCTCTGATGATGATTTGAGAGCAATTTTGGATCACTATTTGAC 558
QY 474 CCGAGAACTGCAAGTTTCCAAACACGATGAGAAAACGGGTACGATCACTCT 533
Db 559 CCGAGAACTGCAAGTTTCCAAACACGATGAGAAAACGGGTACGATCACTCT 618
QY 534 CCTCAGATACCTCTGATGATGATGCTGGGCGGAGAGAGCTTCTGCGCAGGATG 593
Db 619 CCTCAGATACCTCTGATGATGATGCTGGGCGGAGAGAGCTTCTGCGCAGGATG 678
QY 594 AACCCACCCCTGATCTCCAGTTCTCTCCCGAGAGAAAGATCCCTAATTCATCTC 653
Db 679 AACCCACCCCTGATCTCCAGTTCTCTCCCGAGAGAAAGATCCCTAATTCATCTC 738
QY 654 AACACCCCTGATCTCCAGTTCTCTCCCGAGAGAAAGATCCCTAATTCATCTC 713
Db 739 AACACCCCTGATCTCCAGTTCTCTCCCGAGAGAAAGATCCCTAATTCATCTC 798
QY 714 CTGAACTGCTGAAAGCTCCGCGGCGGATGATCCCGGCGGCTCTCTGTTCAAGAG 773
Db 799 CTGAACTGCTGAAAGCTCCGCGGCGGATGATCCCGGCGGCTCTCTGTTCAAGAG 858
QY 774 CTCCGAGCGCCGAGAGCAACAGCCGATGAGCCATTTAGGGGATGCTCAGGGGC 833
Db 859 CTCCGAGCGCCGAGAGCAACAGCCGATGAGCCATTTAGGGGATGCTCAGGGGC 918
QY 834 GGTGAGTGAACAACGACGCTGGGGGAAACGGGCGGAGAGGCTCCCTTGCAGAG 893
Db 919 GGTGAGTGAACAACGACGCTGGGGGAAACGGGCGGAGAGGCTCCCTTGCAGAG 978
QY 894 TTCATCTAGGCTGCTGG 911
Db 979 TTCATCTAGGCTGCTGG 996

RESULT 10
US-09-990-444-510
Sequence 510, Application US/09990444
Publication No. US20020193300A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gertlisen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Guiney, Austin L.
APPLICANT: Kijavini, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tuma, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.

APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1019
CURRENT APPLICATION NUMBER: US/09/990,444
CURRENT FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
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PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/067770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
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DB 919 GGTGAGTGAACAGCAGCGCTGGGGGAAACGGGCGCGGAAAGGCTGCGCCCTTTCAGAG 978
QY 894 TTGATCTAGGCTGCTG 911
DB 979 TTGATCTAGGCTGCTG 996

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US-09-989-730-510
Sequence 510, Application US/09989730
Publication No. US20020197674A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnovers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerlitsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
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APPLICANT: Kijavlin, Ivar J.
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APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C69
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 PRIOR FILING DATE: 1998-07-07
 PRIOR APPLICATION NUMBER: 60/091982
 PRIOR FILING DATE: 1998-07-07
 PRIOR APPLICATION NUMBER: 60/092182
 PRIOR FILING DATE: 1998-07-09

Query Match 49.5%; Score 798; DB 9; Length 996;
 Best Local Similarity 100.0%; Pred. No. 2,3e-216;
 Matches 798; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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 DB 499 AGCAGAAATACCTCTGATGATTTTCAAGGCAATTTTGGATCACTATTTCGAC 558
 QY 474 CCGAGAACTGAGGTTCCACACACAGCGCTGAAAACGGGTACGACGTCTACCACTCT 533
 DB 559 CCGAGAACTGAGGTTCCACACACAGCGCTGAAAACGGGTACGACGTCTACCACTCT 618
 QY 534 CTTCAATATCACTTCTGTGATCTGAGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 593
 DB 619 CTTCAATATCACTTCTGTGATCTGAGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 678
 QY 594 AACCAACCCCGTACTCCAGTCTGTCCTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 653
 DB 679 AACCAACCCCGTACTCCAGTCTGTCCTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 738
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RESULT 12

US-09-990-436-510

; Sequence 510, Application US/09990436

; Publication No. US20020198148A1

; GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi J.

; APPLICANT: Baker, Kevin P.

; APPLICANT: Botstein, David

; APPLICANT: Desnoyers, Luc

; APPLICANT: Baton, Dan L.

; APPLICANT: Ferrara, Napoleone

APPLICANT: Pong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gunney, Austin L.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Napier, Mary A.
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APPLICANT: Paoni, Nicholas P.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C14
CURRENT APPLICATION NUMBER: US/09/990,436
PRIOR FILING DATE: 2001-11-14
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PRIOR FILING DATE: 1998-07-09

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Query Match Best Local Similarity 49.5%; Score 798; DB 9; Length 996;

Matches 798; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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259 GTCTGTGCTTGTGAGCGCTGTGACGATGAGCGTCTCAGAGCCTTCCATGCTCTCC 318
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319 CCACTGCTGTGAGCTCAGAGCTGGGGTGGCTGTATCCCTTTAACAAGCCAGCCAGGAAC 378
294 AGCTACCACTGTCAGATCCACAAGAAATGGCCATGTGGAGGGCCCGCCCATCAGACCAATC 353
379 AGCTACCACTGTCAGATCCACAAGAAATGGCCATGTGGAGGGCCCGCCCATCAGACCAATC 438
354 TACAGTGCCTTGATGATCAGATCAGAGGATGCTGGCTTTGTGGATTTACAGGTGATG 413
439 TACAGTGCCTTGATGATCAGATCAGAGGATGCTGGCTTTGTGGATTTACAGGTGATG 498
414 AGCAGAAATGATCTCTGATGATTTTCAAGAGCAACATTTTGGATCACAATTTTGCAG 473
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894 TTCATCTAGAGGTGCTGG 911
979 TTCATCTAGAGGTGCTGG 996

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RESULT 13

US-09-991-181-510

Sequence 510, Application US/09991181

Publication No. US20020197615A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.

APPLICANT: Bocsetein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Fong, Sherman

APPLICANT: Gerber, Hanspeter

APPLICANT: Gerltzen, Mary E.

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APPLICANT: Stewart, Timothy A.

APPLICANT: Tumas, Daniel

APPLICANT: Watanabe, Colin K.

APPLICANT: Williams, P. Mickey

APPLICANT: Wood, William I.

APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

FILE REFERENCE: P27301C53

CURRENT APPLICATION NUMBER: US/09/991,181

PRIOR FILING DATE: 2001-11-16

PRIOR APPLICATION NUMBER: 60/049787

PRIOR FILING DATE: 1997-06-16

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PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 49.5%; Score 798; DB 9; Length 996;
Best Local Similarity 100.0%; Pred. No. 2,3e-216;
Matches 798; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 199 AATCTAGACACGACGACCTAGAGAGGAGACGATGTTGGGGGCGCCCTCAGGCTCTGG 258
QY 174 GTCTGTGCTTGTGACGCGCTCTGAGCATGAGCGTCTCAGAGGCTTATCCCATGCTCC 233
DB 259 GTCTGTGCTTGTGACGCGCTCTGAGCATGAGCGTCTCAGAGGCTTATCCCATGCTCC 318
QY 234 CCACTGCTGCTGCTCAGCTGGGGTGGCTGATCCACTGTACACAGCCAGACGACGAGAAC 293
DB 319 CCACTGCTGCTGCTCAGCTGGGGTGGCTGATCCACTGTACACAGCCAGACGAGAAC 378
QY 294 AGTACACCTGAGATCCAGAGATGGCCATGTGATGGCCGACCCCATCAGACATC 353
DB 379 AGTACACCTGAGATCCAGAGATGGCCATGTGATGGCCGACCCCATCAGACATC 438
QY 354 TACAGTGCCCTGATGATCAATGAGATGCTGGCTTGTGATGATTAAGGATGATG 413
DB 439 TACAGTGCCCTGATGATCAATGAGATGCTGGCTTGTGATGATTAAGGATGATG 498
QY 414 AGCAGAGATACCTGATGATTTTCAGAGGCAACATTTTGGATCACTATTTGAC 473
DB 499 AGCAGAGATACCTGATGATTTTCAGAGGCAACATTTTGGATCACTATTTGAC 558
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DB 559 CCGGAGACTGCAAGTTCACACCCAGACGCTGGAACCGGATGCAAGCTTACACTCT 618
QY 534 CCTCAGTATCACTTCCGTGCTGCTGGGCGCGGAGAGAGGCTTCCGCCAGGATG 593
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DB 799 CTGAAGTGTGAAGCCCGGCGCCGAGTACCCCGGCGCCGCTCTGTTTCAAGAG 858
QY 774 CTCCGAGGCGCGAGACACAGCCGATGAGCCATTAAGAGGCTGTAGAGGAG 833
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QY 834 GGTGAGTGAACGACAGCTGGGGGAGACGGGCGCGAGAGGCTGCCCTTGGCAG 893
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QY 894 TTGATCTAGGCTGCTGG 911
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Publication No. US20020198149A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerlitsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Guiney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730P1C11
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PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 49.5%; Score 798; DB 9; Length 996;
Best Local Similarity 100.0%; Pred. No. 2,38-216; Indels 0; Gaps 0;
Matches 798; Conservative 0; Mismatches 0

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 PRIOR FILING DATE: 1998-07-09

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Query Match Similarity      49.5%; Score 798; DB 9; Length 996;
Best Local Similarity      100.0%; Pred. NO. 2.3e-26;
Matches 798; Conservative 0; Mismatches 0; Indels 0; Gaps 0

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Db 919 GGTGAGTGAACACGACGCTGGGGGAAAGGGCTGCCGCCCTTCGCCAAG 978
QY 894 TTCATCTAAGGTCCTGG 911
Db 979 TTCATCTAAGGTCCTGG 996

Search completed: May 29, 2003, 00:05:38
Job time : 268 secs

GenCore version 5.1.4.D5.4578
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OM nucleic - nucleic search, using sw model

Run on: May 28, 2003, 21:20:14 ; Search time 72 Seconds

(without alignments)
6866.152 Million cell updates/sec

Title: US-09-901-938-1

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Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 15338381 residues.

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

Issued Patents NA:*

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- 3: /cgn2_6/prodata/1/ina/6A_COMB.seq:*
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- 5: /cgn2_6/prodata/1/ina/PCITUS_COMB.seq:*
- 6: /cgn2_6/prodata/1/ina/backfillseq1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	52.6	3.3	423	1	US-08-187-780-5
3	52.6	3.3	423	2	US-08-478-485-2
4	52.6	3.3	423	2	US-08-478-485-5
5	52.6	3.3	423	4	US-08-478-486F-2
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7	52.6	3.3	528	4	US-08-478-486F-10
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9	52.6	3.3	618	4	US-08-478-486F-9
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13	45.8	2.8	972	1	US-08-325-743-1
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16	44.2	2.7	740	2	US-08-713-000-8
17	44.2	2.7	740	2	US-08-975-316-8
18	44.2	2.7	740	4	US-09-211-710-8
19	44.2	2.7	740	4	US-09-615-192A-8
20	44.2	2.7	741	4	US-08-975-316-58
21	44.2	2.7	741	4	US-09-615-192A-58
22	44.2	2.7	788	4	US-09-615-192A-96
23	44.2	2.7	1875	5	PCT-US96-10618-1
24	43.8	2.7	2852	3	US-09-027-137-2
25	43.8	2.7	2852	3	US-09-344-441-2
26	43.6	2.7	1481	2	US-08-474-379C-87
27	43.6	2.7	3131	1	US-07-688-352C-21

C 28	43.6	2.7	3131	3	US-09-146-249A-21	Sequence 21, Appl
C 29	43.6	2.7	3131	3	US-08-206-188B-21	Sequence 21, Appl
C 30	43.6	2.7	3131	5	PCT-US91-02714-20	Sequence 20, Appl
C 31	43.6	2.7	7218	1	US-08-232-463-14	Sequence 14, Appl
32	43.6	2.7	55827	4	US-09-813-133A-3	Sequence 3, Appl
33	43.2	2.7	3073	1	US-07-688-352C-31	Sequence 31, Appl
34	43.2	2.7	3073	2	US-08-474-379C-31	Sequence 31, Appl
35	43.2	2.7	3073	3	US-09-146-249A-31	Sequence 31, Appl
36	43.2	2.7	3073	3	US-08-206-188B-31	Sequence 31, Appl
37	43.2	2.7	3073	5	PCT-US91-02714-30	Sequence 30, Appl
38	43	2.7	609	4	US-09-057-860A-1	Sequence 1, Appl
C 39	42.6	2.6	624	4	US-09-385-982-359	Sequence 359, App
40	42.4	2.6	3275	4	US-09-370-838-151	Sequence 151, App
41	42.2	2.6	1159	4	US-09-410-464-14	Sequence 14, Appl
42	42.2	2.6	5852	1	US-07-867-106-2	Sequence 2, Appl
43	42	2.6	540	3	US-08-643-704A-45	Sequence 45, Appl
44	42	2.6	11517	1	US-07-920-281C-1	Sequence 1, Appl
45	42	2.6	11517	4	US-08-466-277-1	Sequence 1, Appl

ALIGNMENTS

RESULT 1
US-08-187-780-2
Sequence 2, Application US/08187780
Patent No. 5459250
GENERAL INFORMATION:
APPLICANT: CLAUDIO BASILICO
APPLICANT: DANIELA TALANICO
TITLE OF INVENTION: MAMMALIAN GROWTH FACTOR
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSES: Darby & Darby P.C.
STREET: 805 Third Avenue
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10022
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch,
MEDIUM TYPE: 360 Kb storage
COMPUTER: IBM or IBM-compatible
OPERATING SYSTEM: PC/MS-DOS
SOFTWARE: Mordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/187,780
FILING DATE: January 25, 1994
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/901,705
FILING DATE: June 22, 1992
APPLICATION NUMBER: 07/806,771
FILING DATE: December 6, 1991
APPLICATION NUMBER: 07/177,506
FILING DATE: April 4, 1988
APPLICATION NUMBER: 07/062,925
FILING DATE: June 16, 1987
ATTORNEY/AGENT INFORMATION:
NAME: Howard M. Frankfort
REGISTRATION NUMBER: 32,613
REFERENCE/DOCKET NUMBER: 5966/13586-US3
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 527-7700
TELEFAX: (212) 753-6237
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 423
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE:
DESCRIPTION: Genomic DNA

HYPOTHETICAL: NO
 ANTI-SENSE: NO
 FEATURE:
 NAME/KEY:
 LOCATION:
 IDENTIFICATION METHOD:
 OTHER INFORMATION: This sequence can be
 OTHER INFORMATION: found on page 5, lines 3-13, in the
 OTHER INFORMATION: application, as filed.
 PUBLICATION INFORMATION:
 AUTHORS:
 TITLE:
 JOURNAL:
 VOLUME:
 ISSUE:
 PAGES:
 DATE:
 FILING DATE:
 PUBLICATION DATE:
 RELEVANT RESIDUES IN SEQ ID NO: 1-423
 US-08-187-780-2

Query Match 3.3%; Score 52.6; DB 1; Length 423;
 Best Local Similarity 52.4%; Pred. No. 0.00016;
 Matches 140; Conservative 0; Mismatches 124; Indels 3; Gaps 1;

QY 289 GGAACAGCTACCACTGAGATCCAGCAAGATGGCATGTGGGCGACCCCATAGA 348
 DB 74 GCATCGCTTCCACTCCAGGCGCTCCCGACGGCGCATGGCGGCGGACGCGACA 133
 QY 349 CCATCTACAGTCCCTGATGATGATGATGATGATGATGATGATGATGATGATG 408
 DB 134 CCGCGCAGAGCTCTGAGAGCTCTGCGCGGCGGCGGCGGCGGCGGCGGCGGCGG 193
 QY 409 TGATGAGCAAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 468
 DB 194 TGGCAGCGGCTTCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 253
 QY 469 TCGACCGGAGAACTGAGATGATGATGATGATGATGATGATGATGATGATGATG 528
 DB 254 TCACG---GATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 310
 QY 529 ACTCTCTCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 555
 DB 311 AGTCTTACAGTACCGCGGCGATGTTCA 337
 US-08-187-780-5

RESULT 2
 US-08-187-780-5
 Sequence 5, Application US/08187780
 Patent No. 5459250
 GENERAL INFORMATION:
 APPLICANT: CLAUDIO BASILICO
 APPLICANT: DANIELA TALARICO
 TITLE OF INVENTION: MAMMALIAN GROWTH FACTOR
 NUMBER OF SEQUENCES: 8
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Darryl & Darryl P.C.
 STREET: 805 Third Avenue
 CITY: New York
 STATE: New York
 COUNTRY: USA
 ZIP: 10022
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 5.25 inch,
 MEDIUM TYPE: 360 KB storage
 COMPUTER: IBM or IBM-compatible
 OPERATING SYSTEM: PC/MS-DOS
 SOFTWARE: Wordperfect
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/187,780
 FILING DATE: January 25, 1994

CLASSIFICATION: 530
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/901,705
 FILING DATE: June 22, 1992
 APPLICATION NUMBER: 07/806,771
 FILING DATE: December 6, 1991
 APPLICATION NUMBER: 07/177,506
 FILING DATE: April 4, 1988
 APPLICATION NUMBER: 07/062,925
 FILING DATE: June 16, 1987
 ATTORNEY/AGENT INFORMATION:
 NAME: Howard M. Frankfort
 REGISTRATION NUMBER: 32,613
 REFERENCE/DOCKET NUMBER: 5986/13586-US3
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 527-7700
 TELEFAX: (212) 753-6237
 INFORMATION FOR SEQ ID NO: 5:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 423
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: Genomic DNA
 DESCRIPTION:
 FEATURE:
 NAME/KEY:
 LOCATION:
 IDENTIFICATION METHOD:
 OTHER INFORMATION: This sequence
 OTHER INFORMATION: corresponds to K-FGF-140 and can be
 OTHER INFORMATION: found on page 11, lines 39-47 and page
 OTHER INFORMATION: 12, lines 1-31, in the application, as
 PUBLICATION INFORMATION:
 AUTHORS:
 TITLE:
 JOURNAL:
 VOLUME:
 ISSUE:
 PAGES:
 DATE:
 FILING DATE:
 PUBLICATION DATE:
 RELEVANT RESIDUES IN SEQ ID NO: 1-423
 US-08-187-780-5

Query Match 3.3%; Score 52.6; DB 1; Length 423;
 Best Local Similarity 52.4%; Pred. No. 0.00016;
 Matches 140; Conservative 0; Mismatches 124; Indels 3; Gaps 1;

QY 289 GGAACAGCTACCACTGAGATCCAGCAAGATGGCATGTGGGCGACCCCATAGA 348
 DB 74 GCATCGCTTCCACTCCAGGCGCTCCCGACGGCGCATGGCGGCGGACGCGACA 133
 QY 349 CCATCTACAGTCCCTGATGATGATGATGATGATGATGATGATGATGATGATG 408
 DB 134 CCGCGCAGAGCTCTGAGAGCTCTGCGCGGCGGCGGCGGCGGCGGCGGCGGCGG 193
 QY 409 TGATGAGCAAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 468
 DB 194 TGGCAGCGGCTTCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 253
 QY 469 TCGACCGGAGAACTGAGATGATGATGATGATGATGATGATGATGATGATGATG 528
 DB 254 TCACG---GATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 310
 QY 529 ACTCTCTCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 555
 DB 311 AGTCTTACAGTACCGCGGCGATGTTCA 337
 US-08-187-780-5

RESULT 3
US-08-478-485-2
Sequence 2, Application US/08478485
Patent No. 5883071
GENERAL INFORMATION:
APPLICANT: CLAUDIO BASILICO
APPLICANT: DANIELA TALARICO
TITLE OF INVENTION: MAMMALIAN GROWTH FACTOR
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Darby & Darby P.C.
STREET: 805 Third Avenue
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10022
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy Diskette, 3+ inch,
MEDIUM TYPE: 1.44 MB storage
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC/MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/478,485
FILING DATE: Concurrently Herewith
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/187,780
FILING DATE: January 25, 1994
APPLICATION NUMBER: 07/901,705
FILING DATE: June 22, 1992
APPLICATION NUMBER: 07/806,771
FILING DATE: December 6, 1991
APPLICATION NUMBER: 07/177,506
FILING DATE: April 4, 1988
APPLICATION NUMBER: 07/062,925
FILING DATE: June 16, 1987
ATTORNEY/AGENT INFORMATION:
NAME: Joseph R. Robinson
REGISTRATION NUMBER: 33,448
REFERENCE/DOCKET NUMBER: 5986/13586-US6
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 527-7700
TELEFAX: (212) 753-6237
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 423
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Genomic DNA
DESCRIPTION: No
HYPOTHETICAL: No
ANTI-SENSE: No
FEATURE:
NAME/KEY:
LOCATION:
IDENTIFICATION METHOD:
OTHER INFORMATION: This sequence can be
OTHER INFORMATION: found on page 5, lines 3-13, in the
OTHER INFORMATION: publication, as filed.
PUBLICATION INFORMATION:
AUTHORS:
TITLE:
JOURNAL:
VOLUME:
ISSUE:
PAGES:
DATE:
DOCUMENT NUMBER:
FILING DATE:
PUBLICATION DATE:
RELEVANT RESIDUES IN SEQ ID NO: 1-423

US-08-478-485-2
Query Match 3.3%; Score 52.6; DB 2; Length 423;
Best Local Similarity 52.4%; Pred. No. 0.00016;
Matches 140; Conservative 0; Mismatches 124; Indels 3; Gaps 1;
QY 289 GGAACAGCTACCACTTCAGATCAAGATGCGCATGTGGACACCCCATAGA 348
DB 74 GCATCGGCTTCACCTCCAGCGCTCCCGACGCGCCATCGGGCGCGCAGACA 133
QY 349 CCATCTACAGTGCCTGATATCATAGATGCTGCTTGTGTATTCAGATG 408
DB 134 CCGCAGACCTCTGAGACTCTCGCCCTGAGCGCGCGTGTAGCATCTTCGCG 193
QY 409 TGATGACGACAGATACCTCTGATGATTTTCAGAGCAATTTTGATTCACATATT 468
DB 194 TGCGCAGCGGTTCTTGTGCGCATAGACGACAGGCAAGCTATAGCTCGCTTCT 253
QY 469 TCGACCCGAGAACTGAGGTTCCAAACAGACGCTGAAAACGGGTACGAGCTTACC 528
DB 254 TCACC--GATGAGTGACGTTCAAGAGATCTCTTCCCAACAATAACAGCCTACG 310
QY 529 ACCTCTCTAGTATCACTTCTCTGCA 555
DB 311 AGTCTCAAGTACCCCGCATGTCA 337
RESULT 4
US-08-478-485-5
Sequence 5, Application US/08478485
Patent No. 5883071
GENERAL INFORMATION:
APPLICANT: CLAUDIO BASILICO
APPLICANT: DANIELA TALARICO
TITLE OF INVENTION: MAMMALIAN GROWTH FACTOR
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Darby & Darby P.C.
STREET: 805 Third Avenue
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10022
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy Diskette, 3+ inch,
MEDIUM TYPE: 1.44 MB storage
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC/MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/478,485
FILING DATE: Concurrently Herewith
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/187,780
FILING DATE: January 25, 1994
APPLICATION NUMBER: 07/901,705
FILING DATE: June 22, 1992
APPLICATION NUMBER: 07/806,771
FILING DATE: December 6, 1991
APPLICATION NUMBER: 07/177,506
FILING DATE: April 4, 1988
APPLICATION NUMBER: 07/062,925
FILING DATE: June 16, 1987
ATTORNEY/AGENT INFORMATION:
NAME: Joseph R. Robinson
REGISTRATION NUMBER: 33,448
REFERENCE/DOCKET NUMBER: 5986/13586-US6
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 527-7700
TELEFAX: (212) 753-6237
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:

GENERAL INFORMATION:
APPLICANT: CLAUDIO BASILICO
APPLICANT: DANIELA TALARICO
TITLE OF INVENTION: MAMMALIAN GROWTH FACTOR
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
ADDRESSEE: Darby & Darby P.C.
STREET: 805 Third Avenue
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10022

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy Diskette, 3+ inch,
MEDIUM TYPE: 1.44 MB storage
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC/MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/478,486F
FILING DATE: June 7, 1995

CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/187,780
FILING DATE: January 25, 1994
APPLICATION NUMBER: 07/901,705
FILING DATE: June 22, 1992
APPLICATION NUMBER: 07/806,771
FILING DATE: December 6, 1991
APPLICATION NUMBER: 07/177,506
FILING DATE: April 4, 1988
APPLICATION NUMBER: 07/062,925
FILING DATE: June 16, 1987

ATTORNEY/AGENT INFORMATION:
NAME: Howard M. Frankfort
REGISTRATION NUMBER: 32,613
REFERENCE/DOCKET NUMBER: 5986/13586-US7
TELEPHONE: (212) 527-7700
TELEFAX: (212) 753-6237
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 423
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Genomic DNA
FEATURE:
NAME/KEY:
LOCATION:
IDENTIFICATION METHOD:
OTHER INFORMATION: This sequence
OTHER INFORMATION: corresponds to K-FGF-140 and can be
OTHER INFORMATION: found on page 11, lines 39-47 and page
OTHER INFORMATION: 12, lines 1-31, in the application, as
OTHER INFORMATION: filed.
US-08-478-486F-5

Query Match 3.3%; Score 52.6; DB 4; Length 423;
Best Local Similarity 52.4%; Pred. No. 0.00016;
Matches 140; Conservative 0; Mismatches 124; Indels 3; Gaps 1;

QY 289 GGAAGAGCTACCACTGCAATCACAAGATGGCCATGTGGAGGACCCCATAGA 348
DB 74 GCAATCGGCTTCACCTCCAGCGCTCCCGACGCGCCGATCGGCGGCGCACAGCGGACA 133
QY 349 CCATCTACAGTCCCTGATGATCAGATCAGAGATGCTGGCTTTGTGATTAAGGTG 408
DB 134 CCGGACAGCGCTGAGACTCTCGCCCTGAGAGGAGGAGGAGTGTAGATCTTCGCGG 193
QY 409 TGATGAGCAAGATACCTGTGATGATTTTCAGAGGCAACATTTTGTATCAACTATT 468

DB 194 TGGCCAGCGGTTCTTGTGCGCATGAGCAGCAAGGCGAAGCTATAGCTCGCCCTTCT 253
QY 469 TCGACCCGGAAGACTGAGAGTTCCACACAGACGCTGGAAGACGGGTACGAGCTTACC 528
DB 254 TCACCC--GATGAGTGACACCTTCAGAGATTTCTTCCCAACAACACTACAGCGCTAACG 310
QY 529 ACTGCTCAGTATCACTTCTGCTCA 555
DB 311 AGTCTCAAGTACCCCGCATGTTCA 337

RESULT 7
US-08-478-486F-10
Sequence 10, Application US/08478486F
Patent No. 6432702
GENERAL INFORMATION:
APPLICANT: CLAUDIO BASILICO
APPLICANT: DANIELA TALARICO
TITLE OF INVENTION: MAMMALIAN GROWTH FACTOR
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
ADDRESSEE: Darby & Darby P.C.
STREET: 805 Third Avenue
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10022

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy Diskette, 3+ inch,
MEDIUM TYPE: 1.44 MB storage
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC/MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/478,486F
FILING DATE: June 7, 1995

CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/187,780
FILING DATE: January 25, 1994
APPLICATION NUMBER: 07/901,705
FILING DATE: June 22, 1992
APPLICATION NUMBER: 07/806,771
FILING DATE: December 6, 1991
APPLICATION NUMBER: 07/177,506
FILING DATE: April 4, 1988
APPLICATION NUMBER: 07/062,925
FILING DATE: June 16, 1987

ATTORNEY/AGENT INFORMATION:
NAME: Howard M. Frankfort
REGISTRATION NUMBER: 32,613
REFERENCE/DOCKET NUMBER: 5986/13586-US7
TELEPHONE: (212) 527-7700
TELEFAX: (212) 753-6237
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 528 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-08-478-486F-10

Query Match 3.3%; Score 52.6; DB 4; Length 528;
Best Local Similarity 52.4%; Pred. No. 0.00018;
Matches 140; Conservative 0; Mismatches 124; Indels 3; Gaps 1;

QY 289 GGAAGAGCTACCACTGCAATCACAAGATGGCCATGTGGAGGACCCCATAGA 348
DB 182 GCAATCGGCTTCACCTCCAGCGCTCCCGACGCGCCGATCGGCGGCGCACAGCGGACA 241
QY 349 CCATCTACAGTCCCTGATGATCAGATCAGAGATGCTGGCTTTGTGATTAAGGTG 408

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Db 242 CCGGGAAGAGCTGCTGAGAGCTGCGCCGCGAGCGGCGGTGAGCATTTGCGCG 301
QY 409 TGATGAGAGAGATACCTCTGATGATTTGAGAGCAATTTTGGATCAGCTATT 468
Db 302 TGGCAGCGGTTCTTCTGCGCATGAGCAGAGAGGAGGAGCTTATGCTGCGCTTCT 361
QY 469 TCGACCGGAGAACTGAGGTTTCCAAACAGACGCTGMAAACGGGTACGACTTACC 528
Db 362 TCACCG---GATGAGTGACAGTTCAAGAGATTTCTTCCCAACAACAGCGCTTAG 418
QY 529 ACTCTCCCTAGTATCACTTCTGCTGCA 555
Db 419 AGTCTTACAAGTACCCGCGCATGTTCA 445

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RESULT 8
5430019-1
; Patent No. 5430019
; APPLICANT: ROGERS, DAVID T.; WOLFMAN, NEIL M.; SEHRA, JASBIR S.
; TITLE OF INVENTION: HOMOGENEOUS K-PGF AND USE OF THE SAME
; NUMBER OF SEQUENCES: 2
; CURRENT APPLICATION DATA:
; FILING DATE: 12-JUN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/898,051
; FILING DATE: 12-JUN-1992
; APPLICATION NUMBER: 438,278
; FILING DATE: 16-NOV-1989
; SEQ ID NO:1
; LENGTH: 599
5430019-1

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Query Match 3.3%; Score 52.6; DB 6; Length 599;
Best Local Similarity 52.4%; Pred. No. 0.00019;
Matches 140; Conservative 0; Mismatches 124; Indels 3; Gaps 1;

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QY 289 GGAACAGCTACCACTGAGATCCAGCAAGATGCGCATGATGCGCACCCCATCAGA 348
Db 185 GCATCGGCTTCCACTCCAGCGCTCCCGGCGGCGCATGCGGCGCGCAGCGGAGCA 244
QY 349 CCATCTACAGTCCCTGATATCATGATCAGAGATGCTGCTTTGTTGATTTACAGGTG 408
Db 245 CCGGCGACGCTGCTGAGCTTCGCGCGGCGGCGGTGAGCATTTTGGCGG 304
QY 409 TGATGAGAGAGATACCTCTGATGATTTCAAGAGCAATTTTGGATCAGCTATT 468
Db 305 TGGCAGCGGTTCTTCTGCGCATGAGCAGAGGAGGAGCTTATGCTGCGCTTCT 364
QY 469 TCGACCGGAGAACTGAGGTTTCCAAACAGACGCTGMAAACGGGTACGACTTACC 528
Db 365 TCACCG---GATGAGTGACAGTTCAAGAGATTTCTTCCCAACAACAGCGCTTAG 421
QY 529 ACTCTCCCTAGTATCACTTCTGCTGCA 555
Db 422 AGTCTTACAAGTACCCGCGCATGTTCA 448

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RESULT 9
US-08-478-486F-9
; Sequence 9, Application US/08478486F
; Patent No. 6432702
; GENERAL INFORMATION:
; APPLICANT: CLAUDIO BASILICO
; APPLICANT: DANIELA TALARICO
; TITLE OF INVENTION: MAMMALIAN GROWTH FACTOR
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Darby & Darby P.C.
; STREET: 805 Third Avenue
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10022

```

```

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy Diskette, 3+ inch,
; MEDIUM TYPE: 1.44 MB storage
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC/MS-DOS
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/478,486F
; FILING DATE: June 7, 1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/187,780
; FILING DATE: January 25, 1994
; APPLICATION NUMBER: 07/901,705
; FILING DATE: June 22, 1992
; APPLICATION NUMBER: 07/806,771
; FILING DATE: December 6, 1991
; APPLICATION NUMBER: 07/177,506
; FILING DATE: April 4, 1988
; APPLICATION NUMBER: 07/062,925
; FILING DATE: June 16, 1987
; ATTORNEY/AGENT INFORMATION:
; NAME: Howard M. Frankfort
; REGISTRATION NUMBER: 32,613
; REFERENCE/DOCKET NUMBER: 5986/13586-US7
; TELEPHONE: (212) 527-7700
; TELEFAX: (212) 753-6237
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 618
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-478-486F-9

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Query Match 3.3%; Score 52.6; DB 4; Length 618;
Best Local Similarity 52.4%; Pred. No. 0.00019;
Matches 140; Conservative 0; Mismatches 124; Indels 3; Gaps 1;

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QY 289 GGAACAGCTACCACTGAGATCCAGCAAGATGCGCATGATGCGCACCCCATCAGA 348
Db 272 GCATCGGCTTCCACTCCAGCGCTCCCGGCGGCGCATGCGGCGCGCAGCGGAGCA 331
QY 349 CCATCTACAGTCCCTGATATCATGATCAGAGATGCTGCTTTGTTGATTTACAGGTG 408
Db 332 CCGGCGACGCTGCTGAGCTTCGCGCGGCGGCGGTGAGCATTTTGGCGG 391
QY 409 TGATGAGAGAGATACCTCTGATGATTTCAAGAGCAATTTTGGATCAGCTATT 468
Db 392 TGGCAGCGGTTCTTCTGCGCATGAGCAGCAAGGAGGAGCTTATGCTGCGCTTCT 451
QY 469 TCGACCGGAGAACTGAGGTTTCCAAACAGACGCTGMAAACGGGTACGACTTACC 528
Db 452 TCACCG---GATGAGTGACAGTTCAAGAGATTTCTTCCCAACAACAGCGCTTAG 508
QY 529 ACTCTCCCTAGTATCACTTCTGCTGCA 555
Db 509 AGTCTTACAAGTACCCGCGCATGTTCA 535

```

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RESULT 10
US-08-478-486F-11
; Sequence 11, Application US/08478486F
; Patent No. 6432702
; GENERAL INFORMATION:
; APPLICANT: CLAUDIO BASILICO
; APPLICANT: DANIELA TALARICO
; TITLE OF INVENTION: MAMMALIAN GROWTH FACTOR
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Darby & Darby P.C.
; STREET: 805 Third Avenue

```


CITY: SAN DIEGO
STATE: CA
COUNTRY: USA
ZIP: 92127
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/915,934
FILING DATE: 19920720
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: PEPPER PH.D., FREDERICK W.
REGISTRATION NUMBER: 31,286
REFERENCE/DOCKET NUMBER: 92-0224.02
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 451-1120
TELEFAX: (619) 451-9628
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 972 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: CDS
LOCATION: 1..864
US-07-915-934-1

Query Match 2.8%; Score 45.8; DB 1; Length 972;
Best Local Similarity 67.0%; Pred. No. 0.015;
Matches 65; Conservative 0; Mismatches 32; Indels 0; Gaps 0;

QY 1178 GAGAGGGGCTCTCCCAACATATTCTCTCTGTCCTCTCTTATCACTTTA 1237
DB 863 GAAAGGTGTTAAATCTTTAAATTAATGTTCTTATGCTCCTCACTCAAAAAA 922
QY 1238 AGCATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1274
DB 923 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 959

RESULT 13
US-08-325-743-1
Sequence 1, Application US/08325743
Patent No. 5527682
GENERAL INFORMATION:
APPLICANT: OWENS, GREGORY P.
APPLICANT: COHEN, J. J.
APPLICANT: HAHN, WILLIAM E.
TITLE OF INVENTION: DNA SEQUENCES ENCODING PROTEINS USED TO
NUMBER OF INVENTIONS: ELICIT AND DETECT PROGRAMMED CELL DEATH
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: FREDERICK W. PEPPER, PH.D.
STREET: 11545 W. BERNARDO COURT, STE. 302
CITY: SAN DIEGO
STATE: CA
COUNTRY: USA
ZIP: 92127
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/325,743
FILING DATE: 19-OCT-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/915,934
FILING DATE: 20-JUL-1992
ATTORNEY/AGENT INFORMATION:
NAME: PEPPER PH.D., FREDERICK W.
REGISTRATION NUMBER: 31,286
REFERENCE/DOCKET NUMBER: 92-0224.02
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 451-1120
TELEFAX: (619) 451-9628
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 972 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: CDS
LOCATION: 1..864
US-08-325-743-1

Query Match 2.8%; Score 45.8; DB 1; Length 972;
Best Local Similarity 67.0%; Pred. No. 0.015;
Matches 65; Conservative 0; Mismatches 32; Indels 0; Gaps 0;

QY 1178 GAGAGGGGCTCTCCCAACATATTCTCTCTGTCCTCTCTTATCACTTTA 1237
DB 863 GAAAGGTGTTAAATCTTTAAATTAATGTTCTTATGCTCCTCACTCAAAAAA 922
QY 1238 AGCATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1274
DB 923 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 959

RESULT 14
US-09-240-952-1
Sequence 1, Application US/09240952
Patent No. 6331523
GENERAL INFORMATION:
APPLICANT: Kljavin, Ivar
APPLICANT: La Fleur, Monique
TITLE OF INVENTION: Method of Preventing the Death of Retinal
NUMBER OF INVENTIONS: Neurons and Treating Ocular Diseases
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 1 DNA Way
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: winpatin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/240,952
FILING DATE: 29-Jan-1999
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/041,383
FILING DATE: 12-Mar-98
ATTORNEY/AGENT INFORMATION:
NAME: Svoboda, Craig G.
REGISTRATION NUMBER: 39,044
REFERENCE/DOCKET NUMBER: P1088P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650/225-1489
TELEFAX: 650/952-9881
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 800 base pairs

TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
US-09-240-952-1

Query Match 2.8%; Score 45.2; DB 4; Length 800;
Best Local Similarity 50.0%; Pred. No. 0.02;
Matches 141; Conservative 0; Mismatches 138; Indels 3; Gaps 1;

QY 251 CTGGGGTGGCTGATCCAGCTGTACACAGCAGCCAGGAAGCTACCTGCAAGAT 310
DB 214 CTGGGGGGCGCGAGCCGCTCTACTGAGAGTGGGATCGGTTCCATCTGCAGAT 273
QY 311 CCACAGAAATGGCCATGTGATGGCGCACCCATCAGACCACTTACAGTCCCTGATGAT 370
DB 274 CTACCCGGATGGCAAGTCAATGATCCCAAGAGCCCAATATGTTAAAGTGTGGAAAT 333
QY 371 CAGATCAGAGATGCTGGCTTTGGTGATTAACAGTGATGAGCAGAAAGATACCTCTG 430
DB 334 ATTTGCTGTCTCAGGGAGTTGAGGAATACGAGAGTTTTCAGCAACAATTTTATGC 393
QY 431 CATGATTTTCAAGGCAACATTTTGGATCACTATTTGACCCGGAAGACTGCAGGTT 490
DB 394 GATGTCAAAAAAGAACTCCATGCAAGTCCCAAGTTCA--CAGATGACTGCAAGTT 450
QY 491 CCAACACACAGCGCTGAAAAACGGGTAAGAGCTTACCACTC 532
DB 451 CAGGAGCGGTTTCAAGAAATAGCTATAATACCTATGCTC 492

RESULT 15
US-09-484-970B-167
Sequence 167, Application US/09484970B
Patent No. 6426186

GENERAL INFORMATION:
APPLICANT: Jones, Karen A.
APPLICANT: Volkmuth, Wayne
APPLICANT: Walker, Michael G.
TITLE OF INVENTION: BONE REMODELING GENES
FILE REFERENCE: PB-0014 US
CURRENT APPLICATION NUMBER: US/09/484, 970B
CURRENT FILING DATE: 2000-01-18
NUMBER OF SEQ ID NOS: 172
SOFTWARE: PERL Program
SEQ ID NO 167
LENGTH: 1234
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc feature
OTHER INFORMATION: Incyte ID No. 6426186 333034.1
US-09-484-970B-167

Query Match 2.8%; Score 45.2; DB 4; Length 1234;
Best Local Similarity 50.0%; Pred. No. 0.025;
Matches 141; Conservative 0; Mismatches 138; Indels 3; Gaps 1;

QY 251 CTGGGGTGGCTGATCCAGCTGTACACAGCAGCCAGGAAGCTACCTGCAAGAT 310
DB 499 CTGGGGGGCGCGAGCCGCTCTACTGAGAGTGGGATCGGTTCCATCTGCAGAT 558
QY 311 CCACAGAAATGGCCATGTGATGGCGCACCCATCAGACCACTTACAGTCCCTGATGAT 370
DB 559 CTACCCGGATGGCAAGTCAATGATCCCAAGAGCCCAATATGTTAAAGTGTGGAAAT 618
QY 371 CAGATCAGAGATGCTGGCTTTGGTGATTAACAGTGATGAGCAGAAAGATACCTCTG 430
DB 619 ATTTGCTGTCTCAGGGAGTTGAGGAATACGAGAGTTTTCAGCAACAATTTTATGC 678
QY 431 CATGATTTTCAAGGCAACATTTTGGATCACTATTTGACCCGGAAGACTGCAGGTT 490
DB 679 GATGTCAAAAAAGAACTCCATGCAAGTCCCAAGTTCA--CAGATGACTGCAAGTT 735

QY 491 CCAACACACAGCGCTGAAAAACGGGTAAGAGCTTACCACTC 532
DB 736 CAGGAGCGGTTTCAAGAAATAGCTATAATACCTATGCTC 777
Search completed: May 29, 2003, 00:07:03
Job time : 82 secs

GenCore version 5.1.4_p5_4578
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OM nucleic - nucleic search, using sw model

Run on: May 28, 2003, 21:20:14 ; Search time 4519 Seconds

(without alignments)
10381.439 Million cell updates/sec

Title: US-09-901-938-1

Sequence: 1 cggcaaaaaggaggggaatcc.....tgagacacttcgtctcgct 1612

Scoring table:

IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 2054640 seqs, 14551402878 residues

Total number of hits satisfying chosen parameters: 4109280

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

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30: em_hcg_hum:*
31: em_hcg_inv:*
32: em_hcg_other:*
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34: em_hcg_pln:*
35: em_hcg_rtd:*
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37: em_hcg_vrt:*
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39: em_hgo_hum:*
40: em_hgo_mus:*
41: em_hgo_other:*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1612	100.0	1612	9 AF263537	AF263537 Homo sapi
2	1598	99.1	3004	9 AB047858	AB047858 Homo sapi
3	1211	75.1	1211	6 AX191707	AX191707 Sequence
4	1151	71.4	170200	9 AC008012	AC008012 Homo sapi
5	798	49.5	996	6 AX403623	AX403623 Sequence
6	798	49.5	996	6 AX464132	AX464132 Sequence
7	756	46.9	756	6 AX249749	AX249749 Sequence
8	756	46.9	756	6 AX250102	AX250102 Sequence
9	756	46.9	756	6 AX481467	AX481467 Sequence
10	756	46.9	756	6 AB037973	AB037973 Homo sapi
11	753	46.7	753	6 AX235431	AX235431 Sequence
12	528	32.8	753	6 AX191709	AX191709 Sequence
13	457.4	28.4	1559	10 AF263536	AF263536 Mus muscu
14	448.8	27.8	756	10 AB078777	AB078777 Rattus no
15	428	26.6	756	6 AX249747	AX249747 Sequence
16	428	26.6	756	6 AX250100	AX250100 Sequence
17	428	26.6	756	10 AB037889	AB037889 Mus muscu
18	234.2	14.5	76884	2 AC103292	AC103292 Rattus no
19	234.2	14.5	204909	2 AC130862	AC130862 Rattus no
20	230.8	14.3	178533	2 AC015538	AC015538 Mus muscu
21	205.8	12.8	204909	2 AC130862	AC130862 Rattus no
22	76.2	4.7	290471	2 AC125991	AC125991 Rattus no
23	73.2	4.5	624	6 AX191715	AX191715 Sequence
24	72.8	4.5	514	6 AX097639	AX097639 Sequence
25	72.6	4.5	651	6 AX481448	AX481448 Sequence
26	72.6	4.5	651	6 AB018122	AB018122 Homo sapi
27	72.6	4.5	1869	9 BC017664	BC017664 Homo sapi
28	72.6	4.5	2137	6 AX076894	AX076894 Sequence
29	72.6	4.5	2137	6 AX092981	AX092981 Sequence
30	72.6	4.5	2137	6 AX403730	AX403730 Sequence
31	72.6	4.5	2137	6 AX454492	AX454492 Sequence
32	72.6	4.5	2137	6 AX490970	AX490970 Sequence
33	72.6	4.5	2157	9 AF110400	AF110400 Homo sapi
34	72.4	4.5	630	6 AX156436	AX156436 Sequence
35	72.4	4.5	630	6 AX481451	AX481451 Sequence
36	72.4	4.5	630	9 AB021975	AB021975 Homo sapi
37	72.4	4.5	643	6 AX149492	AX149492 Sequence
38	72.4	4.5	784	6 AX156434	AX156434 Sequence
39	72.4	4.5	882	6 AX191713	AX191713 Sequence
40	72.4	4.5	939	6 AX358824	AX358824 Sequence
41	72.4	4.5	939	6 AX362317	AX362317 Sequence
42	72.4	4.5	1117	6 AX351022	AX351022 Sequence
43	72.4	4.5	1190	6 AX275042	AX275042 Sequence
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45	68.4	4.2	633	10 AB025718	AB025718 Mus muscu

ALIGNMENTS

RESULT 1	AF263537	1612 bp	mRNA	linear	PR1 14-DEC-2000
LOCUS	AF263537				
DEFINITION	Homo sapiens RGF23 (RGF23) mRNA, complete cds.				
ACCESSION	AF263537				
VERSION	AF263537.1	GI:9964291			
KEYWORDS					
SOURCE					
ORGANISM	Homo sapiens.				
REFERENCE	Bukacynski, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.				
AUTHORS	White, K.E., Evans, W.E., O'Riordan, J.L.H., Speer, M.C., Econs, M.J., Lorenz-Deplieux, B., Grabowski, M., Meitinger, T. and Strom, T.M.				
TITLE	Autosomal dominant hypophosphataemic rickets is associated with				

mutations in RGP23
 Nat. Genet. 26 (3), 345-348 (2000)
 MEDLINE 20517346
 PUBMED 11062477
 REFERENCE 2 (bases 1 to 1612)
 AUTHORS Strom, T.M.
 TITLE Direct Submission
 JOURNAL Submitted (03-MAY-2000) Medizinische Genetik, Goethestr. 29,
 Muenchen 80336, Germany
 FEATURES
 source
 1. 1612
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 BASE COUNT 405 a 462 c 418 g 327 t
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 Query Match 100.0%; Score 1612; DB 9; Length 1612;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1612; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 CGGCAAAAAGAGGGAATCCAGTCTAGATCTTCAACAGCACTTCAAGGAGAGG 60
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 QY 61 AAAAGGCCGTAAGGCTGGGCGCAGAGAGTCCCGACAGAGTGTCAAGTTTCAATCTCA 120
 DB 61 AAAAGGCCGTAAGGCTGGGCGCAGAGAGTCCCGACAGAGTGTCAAGTTTCAATCTCA 120
 QY 121 GCACAGCCACTAGAGCAGGAGCAGATGTTGGGGGCGCGCTCAGGCTCTGGTCTGTG 180
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 QY 301 ACCTGAGATCCCAAGAAATGGCCATGTGATGGCGCACCCCATCAGACCATCTACAGTG 360
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 QY 361 CCTGTGATCAGATCAGAGATGTGGCTTTGTGTGATTAACAGGTGTATGAGCAGAA 420
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 DB 1021 TGTCTCTGGGGTCCCTTCAACAGAGGCTCGTAGAACCACTTTGAGGCCCAAGT 1080
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 QY 1501 TGGTGTAGGCTGTGAAAACCTTGAACGCTAGACTTGAAGTGTGCTGTAATAGGAGGA 1560
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 QY 1561 ATCATATATGAAAATCTCAGCTCCCTACAGGCTGAGCACTTCTGTCTGCT 1612
 DB 1561 ATCATATATGAAAATCTCAGCTCCCTACAGGCTGAGCACTTCTGTCTGCT 1612
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QY	1455	CTCTGGTCTCTCTTGAAGATCTCTGGGGAAGGCTGTAAAGA	CTGGTGTAGGCTGG	1514	
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QY	1515	TGAAAACTTGACAGCTAGACTTGAATGAGAGAGATCATATAGAAAA	1574		
Db	1501	TGAAAACTTGACAGCTAGACTTGAATGAGAGAGATCATATAGAAAA	1560		
QY	1575	CTCAGCTCTCTTACAGAGGTGAGACCTTCTGTCTGGCT	1612		
Db	1561	CTCAGCTCTCTTACAGAGGTGAGACCTTCTGTCTGGCT	1598		
RESULT 3					
LOCUS	AX191707	1211 bp	DNA	linear	
DEFINITION	Sequence 1 from Patent WO0149740.			PAT 15-AUG-2001	
ACCESSION	AX191707				
VERSION	AX191707.1	GI:15209882			
KEYWORDS	human.				
SOURCE	ORGANISM	Human sapiens			
REFERENCE	Authors	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eubacteria; Primates; Carnivora; Homini; Homidae; Homo.			
TITLE	Conklin, D. C.				
JOURNAL	Novel Egt homolog zef12 Patent: WO 0149740-A 1 12-JUL-2001; ZymoGenetics, Inc. (US)				
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BASE COUNT	273 a	380 c	321 g	237 t	
ORIGIN					
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Best Local Similarity	100.0%;	Pred. No. 2.3e-281;			
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		Indels	0;	Gaps	0;
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QY	93	CCGACAGAGAGTGTCAAGTTCAATCTCAGACACAGCACTCAGAGCAGGGACGATGTTG	152		
Db	61	CCGACAGAGAGTGTCAAGTTCAATCTCAGACACAGCACTCAGAGCAGGGACGATGTTG	120		
QY	153	GGGGCCCGCTCAGAGCTCGGGCTGTGTGCTGTGTGCAAGCTGTGTGAGATGAGCTCTC	212		
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QY	213	AGAGCTATCCCATATGCTCCCACTGTCTCGGCTCAGAGTGGGGTGGCTGATCAACTG	272		
Db	181	AGAGCTATCCCATATGCTCCCACTGTCTCGGCTCAGAGTGGGGTGGCTGATCAACTG	240		
QY	273	TACACAGCTACAGCCAGGAACGCTTACCACTTGCAGATTCACAGAAATGGCCATGTGAT	332		
Db	241	TACACAGCTACAGCCAGGAACGCTTACCACTTGCAGATTCACAGAAATGGCCATGTGAT	300		
QY	333	GGCGACCCCATACAGCATCTACAGTGGCCGTGATGATGATTCAGAGATGCTGGCTTT	392		
Db	301	GGCGACCCCATACAGCATCTACAGTGGCCGTGATGATGATTCAGAGATGCTGGCTTT	360		

Oy	333	GTGGGATTAACAGGAGTGTATGAGCAAGAAATACCTCTGATATGAAATTTACAGAGCAACAT	452
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Oy	453	TTTGGATCAACATATTTTGCACCCCGAGAACTGCAGATTTCAACACAGACGCTGGAAC	512
Db	421	TTTGGATCAACATATTTTGCACCCCGAGAACTGCAGATTTCAACACAGACGCTGGAAC	480
Oy	513	GGGTACGACGTCCTACCACTCTCTCAAGTATCACTTCTGTGTATGTCGTGGCCGGCGAAG	572
Db	481	GGGTACGACGTCCTACCACTCTCTCAAGTATCACTTCTGTGTATGTCGTGGCCGGCGAAG	540
Oy	573	AGAGCCTTCTGTGCGAGGATGAAACCCACCCCGATCTCCAGTTCTCTGTCGCCGAGGAAC	632
Db	541	AGAGCCTTCTGTGCGAGGATGAAACCCACCCCGATCTCTCAAGTTCTCTGTCGCCGAGGAAC	600
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Db	601	GAGATCCCCCTTAATTCATTCAACACCCCAATCCACGAGCGGACACCCCGAGCGCGAG	660
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Oy	753	CCGGCCTCTGTGTCACAGAGGCTCCGAGCGCGAGGACCAACAGCCGATGGCCAGTGAC	812
Db	721	CCGGCCTCTGTGTCACAGAGGCTCCGAGCGCGAGGACCAACAGCCGATGGCCAGTGAC	780
Oy	813	CCATTAGGGAGTGTGTCAGGAGCGGTGAGTGAACAACGACGCTGGGGGAAACGGGCCCGGA	872
Db	781	CCATTAGGGAGTGTGTCAGGAGCGGTGAGTGAACAACGACGCTGGGGGAAACGGGCCCGGA	840
Oy	873	GGCTGCGCCCTTTCGCCAAGTTCAATCTAGGGTGGCTGGAAGGGACCTCTTTAACCA	932
Db	841	GGCTGCGCCCTTTCGCCAAGTTCAATCTAGGGTGGCTGGAAGGGACCTCTTTAACCA	900
Oy	933	TCCCTCAGCAACGACGCTCTCCCAAGAACCAAGGTCCTTGAAGTTCCGAGGATGGGAA	992
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Oy	993	AGGTACAGGGGCAATGTATGGAATTGTGCTTCTCTGAGGGTCCCTTCACAGAGAGTCC	1052
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Db	1021	TGTAGAACCAACCTTTTGAAGGCCCAAGTCAATGGGGTTTCAACGCTTCTCTCACTCAAT	1080
Oy	1113	AGAACACCTTTCCCAATATGAAACCCCAACAGGTAACTAGAAATTTCCCTCATATGAG	1172
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Oy	1173	GTAAGAGAGAGGGGTCTCTCCCAACATATTTCTCTTCTGTGCTCTCTCTTATCAC	1232
Db	1141	GTAAGAGAGAGGGGTCTCTCCCAACATATTTCTCTTCTGTGCTCTCTCTTATCAC	1200
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DEFINITION	Homo sapiens 12p13 BAC RPi11-388F6 (Roswell Park Cancer Institute Human BAC library) complete sequence.		
ACCESSION	AC008012		
VERSION	AC008012.8	GI:5762548	
KEYWORDS	HTG.	Homo sapiens.	
SOURCE	ORGANISM	Homo sapiens.	
		Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;	

REFERENCE
AUTHORS

Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
1 (bases 1 to 170200)

REFERENCE
AUTHORS

Muzny, D., Aronson, A.D., Bouck, J., Bunac, C., Chen, Z., Ding, Y.,
Dugan, S., Durbin, J., Forcum, J., Garcia, C., Gorrell, J.H.,
Gorrell, L.L., Hernandez, J., Issai, A., Jackson, L., Kneitz, S.,
Kondajewski, N., Lau, S., Leal, B., Lee, E., Lichtarge, O., Liu, W.,
Logan, O., Lu, J., Marondel, I., Martinez, C., Merseher, S., Miller, A.,
Montgomery, K., Oswal, G., Pampall, L.R., Parikh, B.J., Perez, L.,
Rashid, N.D., Rives, C., Scherer, S.E., Shen, H., Shim, C., Simon, M.,
Vo, Q., Williamson, A., Worley, K.C., Xiang, A.W., Yang, R., Yu, W.,
Zhou, X., Zuchner, R., Nelson, D. and Gibbs, R.A.

TITLE
JOURNAL
REFERENCE
AUTHORS
TITLE
JOURNAL

Unpublished
2 (bases 1 to 170200)
Submitted (10-JUL-1999) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA

REFERENCE
AUTHORS
TITLE
JOURNAL

Submitted (24-AUG-1999) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA

REFERENCE
AUTHORS
TITLE
JOURNAL

Submitted (09-OCT-1999) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA

REFERENCE
AUTHORS
TITLE
JOURNAL

Submitted (28-SEP-2001) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA

REFERENCE
AUTHORS
TITLE
JOURNAL

Submitted (15-MAR-2002) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA

COMMENT

On Aug 24, 1999 this sequence version replaced gi:5708398.
INFORMATION: <http://www.hgsc.bcm.tmc.edu/> or email
gc-help@bcm.tmc.edu

CLONE LENGTH: This sequence does not necessarily represent the
entire insert of this clone. Overlapping regions of clones are only
sequenced and submitted once, so the sequence for the remainder of
the insert may be found in the record for the adjacent clones.
Overlapping clones are noted at the beginning and end of the
Features listing.

ANNOTATION OF FEATURES:

STSs are identified using ePCR (Genome Res. 7:541-550) searches
of a local database that includes entries from dbSTS, GDB, and
local mapping efforts.

Repeats are identified using RepeatMasker (A. Smit and P. Green,
unpublished.) for Human and Mouse sequences.
Genes and Region of sequence similarity are identified by BLAST
(Nuc. Acids Res. 25:3389-3402) similarity (expect < 1e-34) to the
EST and cDNA sequences. Genes demonstrate at least two exons
flanked by consensus splice sites that maintained sequence
continuity across the splice junctions. Sequences that are not
identical matches are annotated as similar.

SEQUENCING READ COVERAGE: Sequencing is completed to a minimum
standard of double strand coverage with a minimum of 2 clones and 2
reads with no ambiguities or 2 chemistries with a minimum of 2
clones and 3 reads with no ambiguities. If the sequence quality for
a region does not meet this standard, it will be indicated in the
annotation as Low Coverage.

QUALITY OF INDIVIDUAL BASES: This sequence meets stringent quality
standards - estimated error rate less than 1 per 10,000 bases.
Reports of lowest quality individual bases and measures of base
quality are listed below. Description of the metrics can be found
at URL: <http://gc.bcm.tmc.edu:8088/quality.info/genbank.annotation.html>.

QUALSTAT-REPORT-----

Summary Statistics -----
Contig length: 170200
Phrap values in estimate: 169098
Average error rate (BCM-Phrap estimate): 0.000234169
Fraction of Phrap values less than 40 : 0.0503199
Number of consensus changing edits: 21
Number of N's in consensus : 0

Consensus changing edits -----
Position Original+Context Edited+Context
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33904 ggaacacac(n)aaaagacc ggaacacac(n)aaaagacc
50944 taccatac(n)tcctcttc taccatac(n)tcctcttc
51576 ctatagat(n)tgtagtgc ctatagat(n)tgtagtgc
56619 aactatga(n)accagctgc aactatga(n)accagctgc
97197 gcagcatc(n)tcacacgc gcagcatc(n)tcacacgc
97501 tcatgctgc(n)atccagac tcatgctgc(n)atccagac
99721 atatatat(n)ntttatgc atatatat(n)ntttatgc
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136246 tttctttt(n)tttttaag tttctttt(n)tttttaag
134630 atctctaca(n)aaatcanna atctctaca(n)aaatcanna
154838 tanaataca(n)naattagcc tanaataca(n)naattagcc
154839 aanaatacan(n)aatatagcc aanaatacan(n)aatatagcc
164836 tttctctc(n)taatgctct tttctctc(n)taatgctct
164916 cctcctctat(n)ttatgata cctcctctat(n)ttatgata
164929 atggaatag(n)tcagtaggat atggaatag(n)tcagtaggat
167994 catgtctgc(n)ccacagaca catgtctgc(n)ccacagaca

----- Distribution of Quality < 40 Bases -----

#	1000	900	800	700	600	500	400	300	200	100	0
Phrap Value Range	5	10	15	20	25	30	35	40			
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Version: 1.01 xTgo.
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 Bect Local Similarity 100.0%; Pred. No. 1.7e-266;
 Matches 1151; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 133644 CACTATTTGACCCGGAGAACTGCAAGTTCACACACAGACGCTGGAACCGGTACGAC 133703
QY 522 GTCTACCACTCTCTCAGTATCACTTCTGTCAGTCTGGGCGGAGAGAGGCTTC 581
Db 133704 GTCTACCACTCTCTCAGTATCACTTCTGTCAGTCTGGGCGGAGAGAGGCTTC 133763
QY 582 CTGCCAGGATGAACCCACCCCGTATCTCCAGTTCCTGTCCCGAGAGAACGATCCCC 641
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Db 133824 CTAATTCATTGAACCCCGGATCCACAGGCGGAGAACCCCGGAGCGCCGAGACGACTGG 133883
QY 702 GAGCGGAGACCCCGTGAACCTGCTGAAGCCCGGAGCCCGGATGACCCCGGCGCTCC 761
Db 133884 GAGCGGAGACCCCGTGAACCTGCTGAAGCCCGGAGCCCGGATGACCCCGGCGCTCC 133943
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RESULT 5
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 LOCUS
 DEFINITION Sequence 510 from Patent WO0073454.
 ACCESSION AX403623
 VERSION AX403623.1 GI:21437088
 KEYWORDS
 SOURCE
 ORGANISM human.
 Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
 1 Ashkenazi, A.J., Baker, K.P., Botstein, D., Desnovers, L., Eaton, D.,
 Ferrara, N., Gerber, H., Gerstein, M., Goddard, A., Godowski, P.,
 Grimaldi, C.D., Gurney, A.L., Kijavlin, I., Napier, M.A., Pan, J.,

Paoni, N.F., Roy, M., Stewart, T.A., Tumas, D., Watanabe, C.K.,
Williams, P., Wood, W.I. and Zhang, Z.
Secreted and transmembrane polypeptides and nucleic acids encoding
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Patent: WO 0073454-A 510 07-DEC-2000;
Genentech Inc. (US)

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Location/Qualifiers
1..996

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/db_xref="taxon:9606"

Query Match 49.5%; Score 798; DB 6; Length 996;
Best Local Similarity 100.0%; Pred. No. 1e-181;
Matches 798; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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LOCUS Sequence 265 from Patent WO0140466.
DEFINITION AX464132
ACCESSION AX464132
VERSION AX464132.1 GI:21899082
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.

REFERENCE
1 Baker, K.P., Beresini, M., DeForge, L., Desnoyers, L., Filvaroff, E.,
Gao, W.Q., Gerritsen, M.E., Goddard, A., Godowski, P.J., Gurney, A.L.,
Sherwood, S., Smith, V., Stewart, T.A., Tumas, D., Watanabe, C.K.,
Wood, M.L. and Zhang, Z.
Secreted and transmembrane polypeptides and nucleic acids encoding
the same
Patent: WO 0140466-A 265 07-JUN-2001;
Genentech Inc. (US)

TITLE
JOURNAL
FEATURES
Location/Qualifiers
1..996
/organism="Homo sapiens"
/db_xref="taxon:9606"

BASE COUNT 222 a 320 c 260 g 194 t
ORIGIN

Query Match 49.5%; Score 798; DB 6; Length 996;
Best Local Similarity 100.0%; Pred. No. 1e-181;
Matches 798; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

114 AACCTAGACGACGACCTAGAGAGAGGACGATGTTGGGGGCGCCCTCAGGCTTGG 173
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ACCESSION AX249749
VERSION AX249749.1 GI:15864369
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SOURCE human.
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
REFERENCE 1 (bases 1 to 756)
AUTHORS Itoh, N. and Kavanagh, M.W.
TITLE Human fgf-23 gene and gene expression products
JOURNAL Patent: WO 0166596-A 3 13-SEP-2001;
CHIRON CORPORATION (US) ; Kyoto University (JP)
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Best Local Similarity 100.0%; Pred. No. 1.4e-171;
Matches 756; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 447 AACATTTTGGATCACAATTTTGAACCCGAGAACTGACAGTTTCAACACAGAGCTG 506
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Qy 507 GAAAAGGAGAGAGCTTACCACTCTCTCAGATACATTTCTGTGTCACTGTGGGCGG 566
Db 361 GAAAAGGAGAGAGCTTACCACTCTCTCAGATACATTTCTGTGTCACTGTGGGCGG 420
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Db 421 GCGAAGAGAGCTTCTCTGACAGGATGAACCAACCCCGATCTCCAGTTCTGTCCCG 480
Qy 627 AGGAAGAGATCCCGCTTAATTCATTCAACACAGCCCATACACAGGGGGACACCCGGAGC 686
Db 481 AGGAAGAGATCCCGCTTAATTCATTCAACACAGCCCATACACAGGGGGACACCCGGAGC 540
Qy 687 GCGAAGAGAGCTTGAAGAGGAGGACCCCTGAACGTCTGAAGCCCGGGCCCGGATGAGC 746
Db 541 GCGAAGAGAGCTTGAAGAGGAGGACCCCTGAACGTCTGAAGCCCGGGCCCGGATGAGC 600
Qy 747 CCGGCCCCGCGCTCTGTTCACAGAGCTCCGAGGCGCGAGGACAAACCCGATGAGC 806
Db 601 CCGGCCCCGCGCTCTGTTCACAGAGCTCCGAGGCGCGAGGACAAACCCGATGAGC 660
Qy 807 AGTACCCATTTAGGGGTGTGTGATGAGGGGCGGTTCAGTGAACAGCAACCTGGGGAAACGGGC 866
Db 661 AGTACCCATTTAGGGGTGTGTGATGAGGGGCGGTTCAGTGAACAGCAACCTGGGGAAACGGGC 720
Qy 867 CCGAAGAGCTGCGGCGCCCTTCCGCAAGTTTCACTAG 902
Db 721 CCGAAGAGCTGCGGCGCCCTTCCGCAAGTTTCACTAG 756

RESULT 8
AX250102 756 bp DNA linear PAT 28-SEP-2001
LOCUS Sequence 3 from Patent WO0166595.
DEFINITION AX250102
ACCESSION AX250102
VERSION AX250102.1 GI:15864511
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
REFERENCE 1 (bases 1 to 756)
AUTHORS Itoh, N. and Kavanagh, M.W.
TITLE Human fgf-23 gene and gene expression products
JOURNAL Patent: WO 0166595-A 3 13-SEP-2001;
CHIRON CORPORATION (US) ; Kyoto University (JP)
FEATURES
source 1..756
/organism="Homo sapiens"
/db_xref="taxon:9606"
BASE COUNT 159 a 250 c 212 g 135 t
ORIGIN
Query Match 46.9%; Score 756; DB 6; Length 756;
Best Local Similarity 100.0%; Pred. No. 1.4e-171;
Matches 756; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 147 ATGTTGGGGGCGCCGCTCAGGCTGTGGGTCTGTGCTTGTGACGCGTCTGACAGATGAGC 206
Db 1 ATGTTGGGGGCGCCGCTCAGGCTGTGGGTCTGTGCTTGTGACGCGTCTGACAGATGAGC 60
Qy 207 GTCTTCAGAGCCTATCCCAATGCTCTCCCACTGCTCGGCTCAGCTGGGGTGGCTGATC 266
Db 61 GTCTTCAGAGCCTATCCCAATGCTCTCCCACTGCTCGGCTCAGCTGGGGTGGCTGATC 120
Qy 267 CACCTGTACACAGCCACAGCAGGAAAGCTACCACTGACGATGCCAAGAAATGGCCAT 326
Db 121 CACCTGTACACAGCCACAGCAGGAAAGCTACCACTGACGATGCCAAGAAATGGCCAT 180
Qy 327 GTGAGATGGGCAACCCCATCAGACCATCTACAGTCCCTGATGATGATGATGATGATGCT 386
Db 181 GTGAGATGGGCAACCCCATCAGACCATCTACAGTCCCTGATGATGATGATGATGATGCT 240
Qy 387 GGCCTTTGTGTATTAACAGGTGTGATGAGCAGAAATACCTCTGATGATTTCAAGAGC 446
Db 241 GGCCTTTGTGTATTAACAGGTGTGATGAGCAGAAATACCTCTGATGATTTCAAGAGC 300
Qy 447 AACATTTTGGATCACAATTTTGAACCCGAGAACTGACAGTTTCAACACAGAGCTG 506
Db 301 AACATTTTGGATCACAATTTTGAACCCGAGAACTGACAGTTTCAACACAGAGCTG 360

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Db 601 CCGGCCCCGCTCTCTGTCACAGAGCTCCCGAGCCCGGAGCAACAGCCCATGCCC 660
Qy 807 AGTGAACCATTTAGGGGTGTGTGAGGGGGGTGAGTGAACAGCAGCTGGGGGAAACGGGC 866
Db 661 AGTGAACCATTTAGGGGTGTGTGAGGGGGGTGAGTGAACAGCAGCTGGGGGAAACGGGC 720
Qy 867 CCGGAAGGCTGCGCGCCCTTGCCAGATTGATC 899
Db 721 CCGGAAGGCTGCGCGCCCTTGCCAGATTGATC 753

RESULT 12
AX191709 753 bp DNA linear PAT 15-AUG-2001
DEFINITION Sequence 3 from Patent WO0149740.
ACCESSION AX191709
VERSION AX191709.1 GI:15209884
KEYWORDS
SOURCE synthetic construct.
ORGANISM artificial sequences.
REFERENCE 1 (bases 1 to 753)
AUTHORS Conklin,D.C.
TITLE Novel fgf homolog zfgf12
JOURNAL Patent: WO 0149740-A 3 12-JUL-2001;
ZymoGenetics, Inc. (US)
FEATURES
source 1..753
location/Qualifiers
BASE COUNT 108 a 90 c 132 g 94 t 329 others
ORIGIN
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Best Local Similarity 56.3%; Pred. No. 1,4e-116;
Matches 424; Conservative 180; Mismatches 149; Indels 0; Gaps 0;

Qy 147 ATGTGTGGGGCCCGCTCAGAGCTCTGGTGTGCTGTGGACGCTTGACAGATAGC 206
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Qy 207 GTTCTCAGAGCTTATCCCAATGCTCTCCCACTGCTCGGCTCCAGCTGGGGTGGCTGATC 266
Db 61 GTTCTCAGAGCTTATCCCAATGCTCTCCCACTGCTCGGCTCCAGCTGGGGTGGCTGATC 120
Qy 267 CACCTGTACAGAGCCACAGCAGGACAGTACCACTGACATGCAACAAGATGGCCAT 326
Db 121 CACCTGTACAGAGCCACAGCAGGACAGTACCACTGACATGCAACAAGATGGCCAT 180
Qy 327 GTGATGGGGGACCCCATCAGACCATCTACAGTCCCTGATGATCAATCAGAGATGCT 386
Db 181 GTGATGGGGGACCCCATCAGACCATCTACAGTCCCTGATGATCAATCAGAGATGCT 240
Qy 387 GGCCTTGTGGTATTAAGAGTGTGATGAGCAAGATACCTGTGATGATTTGAGAGGC 446
Db 241 GGCCTTGTGGTATTAAGAGTGTGATGAGCAAGATACCTGTGATGATTTGAGAGGC 300
Qy 447 AACATTTTGGATCACACTATTTGACCCCGAGAACTGACAGTTTCAACACAGACGCTG 506
Db 301 AACATTTTGGATCACACTATTTGACCCCGAGAACTGACAGTTTCAACACAGACGCTG 360
Qy 507 GAAAGAGGATGACAGCTCTACCTCTCTCATGATGATCACTTCTGCTGAGTGTGGCCGG 566
Db 361 GAAAGAGGATGACAGCTCTACCTCTCTCATGATGATGATCACTTCTGCTGAGTGTGGCCGG 420
Qy 567 GCGAAGAGAGCTTCCGCGAGAGTGAACCCACCCCGACTCCCGAGTTCCTGCTCCCGG 626
Db 421 GCGAAGAGAGCTTCCGCGAGAGTGAACCCACCCCGACTCCCGAGTTCCTGCTCCCGG 480
Qy 627 AGGAAGAGATCCCTCAATTTCACTTCAACACCCCATACAGCGGGCGGACACCCGAGC 686
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Qy 747 CCGGCCCCGCTCTCTTCAACAGAGCTCCGAGCGCCGAGCAACAGCCCATGAGCC 806
Db 601 CCGNCCNCCNMNSNTGYWNSCARGARYTNCNMWSNCGNARGAYAAVWSNCCNATGCGN 660
Qy 807 AGTGAACCATTTAGGGGTGTGTGAGGGGGGTGAGTGAACAGCAGCTGGGGGAAACGGGC 866
Db 661 WSNAGYCCNTTNGNNGTNGTNGMNGNMGNGTNAAYACNCAVCGNAGNAGNAGN 720
Qy 867 CCGGAAGGCTGCGCGCCCTTGCCAGATTGATC 899
Db 721 CCGGAAGGCTGCGCGCCCTTGCCAGATTGATC 753

RESULT 13
AF263536 1559 bp mRNA linear ROD 14-DEC-2000
LOCUS Mus musculus FGF23 (Fgf23) mRNA, complete cds.
DEFINITION AF263536
ACCESSION AF263536
VERSION AF263536.1 GI:9964289
KEYWORDS
SOURCE Mus musculus.
ORGANISM Mus musculus.
REFERENCE 1 (bases 1 to 1559)
AUTHORS White,K.E., Evans,W.E., O'Riordan,J.L.H., Speer,M.C., Econs,M.J., Lorenz-Deplieux,B., Grabowski,M., Mellinger,T. and Strom,T.M.
TITLE Autosomal dominant hypophosphataemic rickets is associated with mutations in FGF23
JOURNAL Nat. Genet. 26 (3), 345-348 (2000)
MEDLINE 20517346
PUBMED 11062477
REFERENCE 2 (bases 1 to 1559)
AUTHORS Strom,T.M.
TITLE Direct Substitution
JOURNAL Submitted (03-MAY-2000) Medizinische Genetik, Goethestr. 29, Muenchen 80336, Germany
FEATURES
source 1..1559
location/Qualifiers
gene /organism="Mus musculus"
CDS /strain="BALB/c"
/db_xref="taxon:10090"
/chromosome="6"
/clone="RP23-195E18"
/tissue_type="whole embryo"
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57..812
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/product="FGF23"
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AASDPLGVLRGRGARGAGAGACRPPRPV"
BASE COUNT 347 a 457 c 405 g 350 t
ORIGIN
Query Match 28.4%; Score 457.4; DB 10; Length 1559;
Best Local Similarity 73.0%; Pred. No. 1.8e-99;
Matches 602; Conservative 0; Mismatches 221; Indels 2; Gaps 1;

Qy 99 GGAGTGTGAGTTTCAATCTCAGACAGCTCAGAGAGGCGACGATGTTGGGGCC 158
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Db 601 CCCATACCGGTATCTGCTGCGGAGAGCTACCGAGTGCAGAGGAAGGTGGCCCCGCGGCC 660
Qy 807 AGTACCATTAGAGGGGTGTGTCAGGGGCGGTGAGTGAACAAGCAGCTGGGGGAAACGGGC 866
Db 661 AGGACACCCCTGGAGAGTGTGCGGAGAGGGCGCGGGGATGCTGCGCGGGGCGCGGAGGC 720
Qy 867 CCGGAAGGCTCGCGCCCTTTCGCAAGTTCATCTAG 902
Db 721 ACGGATCGGTGTGCGCCCTTTCGAGGTTCTGTCTAG 756

RESULT 15
AX249747 756 bp DNA linear PAT 28-SEP-2001
LOCUS AX249747
DEFINITION Sequence 1 from Patent WO016596.
ACCESSION AX249747
VERSION AX249747.1 GI:15864368
KEYWORDS
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1 (bases 1 to 756)
AUTHORS Itoh, N. and Kavanaugh, M. W.
TITLE Human fgf-23 gene and gene expression products
JOURNAL Patent: WO 016596-A 1 13-SEP-2001;
CHIRON CORPORATION (US); Kyoto University (JP)
FEATURES
Source location/Qualifiers
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/db_xref="taxon:10090"

BASE COUNT 141 a 251 c 217 g 147 t
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Query Match 26.6%; Score 428; DB 6; Length 756;
Best Local Similarity 72.9%; Pred. No. 2e-92;
Matches 551; Conservative 0; Mismatches 205; Indels 0; Gaps 0;

Qy 147 ATGTTGGGGGCGCGCTCAGGCTGTGGTGTGCTTGTCAGCGCTTGACGATGAGC 206
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Qy 207 GTCTCAGAGCCTATCCCATGCTCCCACTGCTGCGCTCCAGCTGGGGTGGCTTGATC 266
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Qy 267 CACCTGTACACAGCAACAGCAAGCAAGTACCACTGAGATCCAGCAAGAAAGAGCCAT 326
Db 121 CACCTGTACACAGCTACAGCAAGCAAGTACCACTGAGATCCAGCAAGAAAGAGTCAAT 180
Qy 327 GTGATGGCGCAACCCATCAGACCATCTACAGTCCCTGATGATCAGATCAGAGATGCT 386
Db 181 GTAGATGGAGCAACCCATCAGACCATCTACAGTCCCTGATGATCAGAGAGAGGCC 240
Qy 387 GGCCTTGTGTGATTAACAGTGTGATGAGCAAGATACCTCTGCAATGATTTCAAGAGC 446
Db 241 GGCCTGTGTGATTAACAGAGACCATGACTCGAAGGTTCTTGTATGATCTCCACGCG 300
Qy 447 AACATTTTGTGATCACTATTTGACCCGAGAACTGAGGTTCCACACAGCAAGAGCTG 506
Db 301 AACATTTTGTGATCGCTTCACTTACGCCCAAGAAATGCAAGTTCCGCAATGAGAGCTG 360
Qy 507 GAAAACGGGTACAGCTTACACTCTCTCAGTATCACTTCTGTGATGATCTGAGGCGCG 566
Db 361 GAGATGGCTATGAGCTACTTGTGAGAGCAATCACTACTGTGAGCTGTGGCGCGC 420
Qy 567 GCGAAGAGAGCTTCTGTGAGAGCATGAACCAACCCGCTACTCCAGTTCTGTCTCGG 626
Db 421 GCGAAGCGATTTTCCAGCGGAGCAACCAACCCGCGCTTCTCCAGTTCTGTGCTCGC 480
Qy 627 AGGAAGAGATCCCGCTAATCACTTCAACACCCCATCCAGCGGAGGAGCAACCGAGAC 686
Db 481 AGGAAGAGATCCCGCTGCTGCACTTCACTTGTGCGCCACGCGGCAACGCGGAGC 540

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Qy 687 GCCGAGAGAGACTCGGAGCGGAGACCCCTTGAAAGTGTGAAGCCCGGCGCCGGATGACC 746
Db 541 GCCGAGAGAGAGACTCGGAGCGGAGACCCCTTGAAAGTGTGAAGCCCGGCGCCGGATGACC 600
Qy 747 CCGGACCCCGGCTCTGTTTCAACAGAGCTCCGAGGCGCGAGGAAACAGCCGATGGCC 806
Db 601 CCGGACCCCGGCTCTGTTTCAACAGAGCTCCGAGGCGCGAGGAAAGTGGCCCGGAGCC 660
Qy 807 AGTACCATTAGAGGGTGTGTCAGGGGCGGTGAGTGAACAAGCAGCTGGGGGAAACGGGC 866
Db 661 AGGACACCCCTGGAGAGTGTGCTGCGGAGAGGCGCGGAGATGCTGCGGGGCGCGGAGGC 720
Qy 867 CCGGAAGGCTCGCGCCCTTTCGCAAGTTCATCTAG 902
Db 721 ACGGATCGGTGTGCGCCCTTTCGAGGTTCTGTCTAG 756

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Search completed: May 29, 2003, 01:28:07
Job time : 4859 secs

GenCore version 5.1.4.p5_4578
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: May 23, 2003, 07:41:52 ; Search time 84 Seconds

(without alignments)
615,688 Million cell updates/sec

Title: US-09-901-938-2

Perfect score: 1360
Sequence: 1 MGARLRMLVGCALCSVCSMS.....VNTHAGTGPEGCRPPAKFI 251

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 671580 seqs, 206047115 residues

Total number of hits satisfying chosen parameters: 671580

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :
1: SP archaea:*
2: SP bacteria:*
3: SP fungi:*
4: SP human:*
5: SP invertebrate:*
6: SP mammal:*
7: SP_mmc:*
8: SP_organelle:*
9: SP_phage:*
10: SP_plant:*
11: SP_rodent:*
12: SP_virus:*
13: SP Vertebrate:*
14: SP_unclassified:*
15: SP_rvlnus:*
16: SP_bacteriap:*
17: SP_archaeap:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	978	71.9	251	11	Q8VI82 ratu
2	239	17.6	208	11	Q8VI80 ratu
3	194.5	14.3	227	13	Q9DND0 gallu
4	181.5	13.3	245	11	Q8R5L9 gallu
5	158	11.6	196	13	Q9YH31 notoph
6	157	11.5	124	13	Q90X05 ambys
7	150.5	11.1	111	13	Q90X01 ambys
8	149.5	11.0	218	11	Q8VI81 ratu
9	147.5	10.8	192	11	Q9ERW3 ratu
10	147.5	10.8	245	11	Q8VY99 mus
11	146.5	10.8	208	6	Q9SK97 macac
12	146	10.7	206	13	Q9YGD8 oncor
13	144	10.6	211	11	Q8R4X0 ratu
14	143.5	10.6	212	13	Q42407 gallu
15	143	10.5	201	13	Q8QGS9 ambys
16	142	10.4	191	13	Q9DRC9 brachy

17	141	10.4	111	13	Q90Y71 xenopu
18	140.5	10.3	199	13	Q9AI13 gallu
19	140.5	10.3	245	13	Q9W6A2 gallu
20	140	10.3	252	11	Q89096 ratu
21	139.5	10.3	208	4	Q96P59 homo
22	139.5	10.3	208	11	Q8R5L5 ratu
23	137.5	10.3	253	13	Q9AI15 gallu
24	136.5	10.0	247	11	Q8R5L7 ratu
25	134	9.9	237	13	Q9AI16 gallu
26	132.5	9.7	195	11	Q8R5L6 ratu
27	132	9.7	213	6	Q9N1B9 ovine
28	132	9.7	302	11	Q9CSX5 mus
29	130.5	9.6	212	11	Q9EST9 ratu
30	130.5	9.6	212	11	Q9ESL9 mus
31	130	9.6	207	11	Q9ESL8 mus
32	129.5	9.5	112	13	Q90X09 ambys
33	129	9.5	207	11	Q9EROS mus
34	128	9.4	185	11	Q9ERN5 ratu
35	128	9.4	186	6	Q9SL47 mustela
36	127	9.3	134	13	Q90XQ3 ambys
37	127	9.3	170	11	Q60487 cavia
38	127	9.3	181	11	Q924B4 ratu
39	127	9.3	181	13	Q9AI17 gallu
40	127	9.3	243	13	Q9W6A1 gallu
41	125.5	9.2	162	11	Q8VI79 ratu
42	124.5	9.2	153	6	Q8SQ73 canis
43	124.5	9.2	181	4	Q8TBG5 homo
44	124	9.1	127	4	Q99517 homo
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ALIGNMENTS

RESULT 1

ID Q8VI82 PRELIMINARY; PRT; 251 AA.

AC Q8VI82; 01-MAR-2002 (T-EMBLrel. 20, Created)

DT 01-MAR-2002 (T-EMBLrel. 20, Last sequence update)

DT 01-JUN-2002 (T-EMBLrel. 21, Last annotation update)

DE Fibroblast growth factor 23.

GN FGF23.

OS Rattus norvegicus (Rat).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.

OX NCBI_TaxID=10116;

RN [1]

RP SEQUENCE FROM N.A.

RA Rattus N.;

RT "Rattus norvegicus fgt23.";

RL Submitted (JAN-2002) to the EMBL/GenBank/DBJ databases.

DR EMBL; AB078777; BAB84108.1; -

DR InterPro; IPR002209; HB/F_growthfact.

DR Pfam; PF00167; FGF_1.

DR ProDom; PD000831; HB/F_growthfact; 1.

DR SMART; SM00442; FGF_1.

SQ SQUENCE 251 AA; 27911 MW; 35A229E1B390593 CRC64;

Query Match 71.9%; Score 978; DB 11; Length 251;

Best Local Similarity 71.7%; Pred. No. 3.9e-86;

Matches 180; Conservative 26; Mismatches 45; Indels 0; Gaps 0;

Qy	1	MGARLRMLVGCALCSVCSMSVLRAYPNASPLGSSWGLIHLVTATARNSTYLQIKRNGH	60
Db	1	MGARLRMLVGCALCSVCSMSVLRAYPNASPLGSSWGLIHLVTATARNSTYLQIKRNGH	60
Qy	61	VDGAPHTTISALMIREDEGFVITVMSRRYLCDPFRNGISAHYFDPCNCFQHTL	120
Db	61	VDGAPHTTISALMIREDEGFVITVMSRRYLCDPFRNGISAHYFDPCNCFQHTL	120
Qy	121	ENGVDVHSPQYHFLVLSIGAKRAFLPGNNPPPSQSLSRNREPLIHFTPIPRRRTS	180
Db	121	ENGVDVHSPQYHFLVLSIGAKRAFLPGNNPPPSQSLSRNREPLIHFTPIPRRRTS	180

Db 121 ENGVDVYLSPKHVLVLSGRSKRIFQPGTNPPFSGFLARNEVLIHFTYTPRRHRS 180
 QY 181 AEDSERDPLVNLKPRAMTPAPASCOSLEPAEDNSPMASDPLGVGRGVNTAGGTG 240
 Db 181 AEDSERDPLVNLKPRAMTPAPASCOSLEPAEDNSPMASDPLGVGRGVNTAGGTG 240
 QY 241 PEGCRPFPAKFI 251
 Db 241 TDRCPFPFV 251

RESULT 2

Q8V180 PRELIMINARY; PRT; 208 AA.
 AC Q8V180;
 DT 01-MAR-2002 (TREMBlrel. 20, Created)
 DT 01-MAR-2002 (TREMBlrel. 20, Last sequence update)
 DT 01-JUN-2002 (TREMBlrel. 21, Last annotation update)
 DE Fibroblast growth factor 21.
 GN FGF21.
 OS Rattus norvegicus (Rat).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Rattus.
 NCBI_TaxID=10116;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Itoh N.;
 RT "Rattus norvegicus FGF21,"
 RL Submitted (JAN-2002) to the EMBL/GenBank/DBJ databases.
 DR EMBL; AB078901; BAB84289.1;
 DR InterPro; IPR002209; HB/F_growthfact.
 DR InterPro; IPR002348; IL1_HBGF.
 DR Pfam; PF00167; FGF_1.
 DR PRINTS; PR00262; IL1HBGF.
 DR Prodom; PD000831; HB/F_growthfact; 1.
 DR SMART; SM00442; FGF_1.
 SQ SEQUENCE 208 AA; 22857 MW; D232445902CDB8EA CRC64;

Query Match 17.6%; Score 239; DB 11; Length 206;
 Best Local Similarity 31.2%; Pred. No. 4.5e-15;
 Matches 67; Conservative 39; Mismatches 73; Indels 36; Gaps 8;

QY 8 LWCALCSVCSMSVLRAYP--NASPLGSSWGLI---HLVTATARNV-YHLOIHKNGHV 61
 Db 13 LWCALCSVCSMSVLRAYP--NASPLGSSWGLI---HLVTATARNV-YHLOIHKNGHV 61
 QY 62 DGAPHQITVYALMIRSDAGVVTGVMSRRLCMDFRGNTFGSHYDPENCRFQHOTLE 121
 Db 71 VGTAHRSPESLLEIKALKPGVLIQIGVARSRLCOQPDGTYGSPHDFPEACSFRELLLK 130
 QY 122 NGVDVYSPQYHFLVSL-----GRAKAFLEPGMNPFPYSGFLSRNEIPLIHFN 170
 Db 131 DGNNVYSGEAGFLRLPKQDSQDPATRGVRLPMLPELPHPEQO---PGVLP----- 181
 QY 171 TP1PRHTRSAEDSERDPLVNLKPRAMTPAPAS 205
 Db 182 -PEP-----PDVSSDPLSMVEPLQGRSSVYS 208

RESULT 3

Q9DDNO PRELIMINARY; PRT; 227 AA.
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 DT 01-MAR-2001 (TREMBlrel. 16, Created)
 DT 01-MAR-2001 (TREMBlrel. 16, Last sequence update)
 DT 01-JUN-2002 (TREMBlrel. 21, Last annotation update)
 DE Fibroblast growth factor 19.
 GN FGF-19.
 OS Gallus gallus (Chicken).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
 OC Gallus.
 NCBI_TaxID=9031;

RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=20564778; PubMed=11110663;
 RA Iadher R.K., Anake K.U., Gurney A.L., Schoenwolf G.C.,
 RA Francis-West P.H.;
 RT "Identification of Synergistic Signals Initiating Inner Ear
 RT Development,"
 RL Science 290:1965-1968 (2000).
 DR EMBL; AF315355; AAG39478.1;
 DR HSSP; P09038; IHRG.
 DR InterPro; IPR002209; HB/F_growthfact.
 DR InterPro; IPR002348; IL1_HBGF.
 DR Pfam; PF00167; FGF_1.
 DR PRINTS; PR00262; IL1HBGF.
 DR Prodom; PD000831; HB/F_growthfact; 1.
 DR SMART; SM00442; FGF_1.
 DR PROSITE; PS00247; HBGF_FGF; UNKNOWN 1.
 SQ SEQUENCE 227 AA; 24568 MW; 875D76FBFD09F8E2 CRC64;

Query Match 14.3%; Score 194.5; DB 13; Length 227;
 Best Local Similarity 29.9%; Pred. No. 9.7e-11;
 Matches 67; Conservative 30; Mismatches 104; Indels 23; Gaps 7;

QY 3 GARLRLWVLCVCSMSVLRAYPN-ASPLGSSWGLIHLVTATARNVYH-----LOI 55
 Db 10 GARLRLWVLCVCSMSVLRAYPN-ASPLGSSWGLIHLVTATARNVYH-----LOI 55
 QY 56 HKNGVDGAPHQITVYALMIRSDAGVVTGVMSRRLCMDFRGNTFGSHYDPENCRF 115
 Db 68 GGDGRVAVGASQSPQSLLEIRAVAVRTVAIKGVSSHYLCMDXEGRLHGLQSLIEDCSF 127
 QY 116 QHOTLENGVDVYSPQYHFLVSLGRAR-RAFLPGMNPFPYSGFLSRNEIPL----- 166
 Db 128 EELIRPGQINVYSKKIGISVLSAKQOQFKKQDPLPSHFLPMINTVPEVTDFGEY 187
 QY 167 -IHNTPIPRHTRSAEDSERDPLVNLKPRAMTPAPASCOS 209
 Db 188 GDYSGAFEPYVSSPLETDS-MDPFGI---TSKLSPVKSSPSFQK 227

RESULT 4

Q8R5L9 PRELIMINARY; PRT; 245 AA.
 AC Q8R5L9;
 DT 01-JUN-2002 (TREMBlrel. 21, Created)
 DT 01-JUN-2002 (TREMBlrel. 21, Last sequence update)
 DT 01-JUN-2002 (TREMBlrel. 21, Last annotation update)
 DE FGF3.
 OS Rattus norvegicus (Rat).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Rattus.
 NCBI_TaxID=10116;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Itoh N.;
 RT "Rattus norvegicus FGF3 mRNA,"
 RL Submitted (FEB-2002) to the EMBL/GenBank/DBJ databases.
 DR EMBL; AB079262; BAB84564.1;
 SQ SEQUENCE 245 AA; 27150 MW; C9305D307E7D0648 CRC64;

Query Match 13.3%; Score 181.5; DB 11; Length 245;
 Best Local Similarity 29.0%; Pred. No. 1.9e-09;
 Matches 62; Conservative 29; Mismatches 86; Indels 37; Gaps 8;

QY 42 LVTATARNVYHLOIHKNGVDGAPHQITVYALMIRSDAGVVTGVMSRRLCMDFRG 101
 Db 48 LVTAT--KTHQLHSGKRVNGLNSAYSILITIVAVGVVAIKGLFGRIYANMKRG 104
 QY 102 IFGSHYDPENCRFQHOTLENGVDVYSPQYHFLVSLGRARAFLEPGMNP----- 152
 Db 105 LVASEHYNAE-CEFVERIHLELGVNTVYASRLYRTGPGPARQ--PGAGRPMVYVNGKG 161
 QY 153 -PYSGFLSRNEIPLIHNTPIPR-----RHTRSAEDSERDPLVNLKPRAMTPAPA 204

DB 162 RPRRGFTKRTQKSLF-----LPRVLGHKHDMWRLLQSGPQAPGEGSGQROR----- 211

QY 205 SCGEOLPSAEDNSPMADNPLGVNRCGRVNTIAGG 238

DB 212 --RQKQSPGDHGMHEHLPVATTSAGLDL--GG 241

RESULT 5

QYH31 PRELIMINARY; PRT; 196 AA.

AC QYH31; 01-MAY-1999 (T-EMBLrel. 10, Created)

DT 01-MAY-1999 (T-EMBLrel. 10, Last sequence update)

DT 01-JUN-2002 (T-EMBLrel. 21, Last annotation update)

DE Putative fibroblast growth factor-4.

OS Notophthalmus viridescens (Eastern newt) (Triturus viridescens).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Amphibia; Batrachia; Caudata; Salamandroidea; Salamandridae;

OC Notophthalmus.

OX NCBI_TaxID=8316;

RN 111

RP SEQUENCE FROM N.A.

RA Wei Y.;

RT "Putative Newt Fibroblast Growth Factor-4.";

RU Submitted (OCT-1996) to the EMBL/GenBank/DBJ databases.

DR EMBL; U76998; AAC98812.1; -

DR HSSP; P09038; 1BFF.

DR InterPro; IPR001064; Crystallin.

DR InterPro; IPR002209; HB/F growthfact.

DR InterPro; IPR002348; IL1_HBGF.

DR Pfam; PF00167; FGF; 1.

DR PRINTS; PR00262; IL1HBGF.

DR ProDom; PD000831; HB/F growthfact; 1.

DR SMART; SM00442; FGF; 1.

DR PROSITE; PS00225; CRYSTALLIN BETAGAMMA; UNKNOWN_1.

DR PROSITE; PS00247; HBGF_FGF; 1.

SQ SEQUENCE 196 AA; 22033 MW; AC4688CD989C6EAF CRC64;

Query Match

Best local similarity 11.6%; Score 158; DB 13; Length 196;

Matches 39; Conservative 16; Mismatches 41; Indels 16; Gaps 3;

QY 51 YHLOIHKNGHVDGAPHQTIYSALMIRSEDAGFVITGVMSRRYLCDPFRGNIFGSHYFDP 110

DB 84 FHLQVLPDGIHGHSHSRSLLEISPERGVCMFVGOSLFLANNSKGLPFSKTFSD 143

QY 111 ENCRFQHTLENGVDVYHS---PQHFVLVSLGRAKA-----FLP 147

DB 144 E-CKFKEMLPNNYNAYESWRYPMTYIALSKNGRAKKGNKVSPTMTVTHFLP 194

RESULT 6

QYH31 PRELIMINARY; PRT; 124 AA.

AC QYH31; 01-DEC-2001 (T-EMBLrel. 19, Created)

DT 01-DEC-2001 (T-EMBLrel. 19, Last sequence update)

DT 01-JUN-2002 (T-EMBLrel. 21, Last annotation update)

DE Fibroblast growth factor 4 (Fragment).

OS Ambystoma mexicanum (Axolotl).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Amphibia; Batrachia; Caudata; Salamandroidea; Ambystomidae;

OC Ambystoma.

OX NCBI_TaxID=8296;

RN 111

RP SEQUENCE FROM N.A.

RX MEDLINE=21439472; PubMed=11555861;

RA Christensen R.N.; Weinstein M.; Tassava R.A.;

RT "Fibroblast growth factors in regenerating limbs of Ambystoma: Cloning and semi-quantitative RT-PCR expression studies.";

DT J. Exp. Zool. 290:529-540 (2001).

DR EMBL; AF360984; AAL16957.1; -

DR InterPro; IPR001064; Crystallin.

DR InterPro; IPR002209; HB/F growthfact.

DR Pfam; PF00167; FGF; 1.

DR ProDom; PD000831; HB/F growthfact; 1.

DR PROSITE; PS00225; CRYSTALLIN BETAGAMMA; UNKNOWN_1.

DR PROSITE; PS00247; HBGF_FGF; UNKNOWN_1.

FT NON TER 1

SQ SEQUENCE 124 AA; 14161 MW; 919CE10E9F6CEFE3 CRC64;

Query Match

Best local similarity 11.5%; Score 157; DB 13; Length 124;

Matches 41; Conservative 18; Mismatches 47; Indels 10; Gaps 4;

QY 51 YHLOIHKNGHVDGAPHQTIYSALMIRSEDAGFVITGVMSRRYLCDPFRGNIFGSHYFDP 110

DB 12 FHVQVLPDGIHGHSHSRSLLEISPERGVVILGVKSLFLANNRKGLTGSQXN- 70

QY 111 ENCRFQHTLENGVDVYHSPOH---FLVSLGRAKA--FLPMPNPPYSQFISR 160

DB 71 ECKFKETLLANNYNAYESRQYPMTYIALSKNGRTKRGNEVSPMTN--VTHFLPR 123

RESULT 7

QYH31 PRELIMINARY; PRT; 111 AA.

AC QYH31; 01-DEC-2001 (T-EMBLrel. 19, Created)

DT 01-DEC-2001 (T-EMBLrel. 19, Last sequence update)

DT 01-JUN-2002 (T-EMBLrel. 21, Last annotation update)

DE Fibroblast growth factor 4 (Fragment).

OS Ambystoma maculatum (spotted salamander).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Amphibia; Batrachia; Caudata; Salamandroidea; Ambystomidae;

OC Ambystoma.

OX NCBI_TaxID=43114;

RN 111

RP SEQUENCE FROM N.A.

RX MEDLINE=21439472; PubMed=11555861;

RA Christensen R.N.; Weinstein M.; Tassava R.A.;

RT "Fibroblast growth factors in regenerating limbs of Ambystoma: Cloning and semi-quantitative RT-PCR expression studies.";

DT J. Exp. Zool. 290:529-540 (2001).

DR EMBL; AF360988; AAL16961.1; -

DR InterPro; IPR001064; Crystallin.

DR InterPro; IPR002209; HB/F growthfact.

DR Pfam; PF00167; FGF; 1.

DR ProDom; PD000831; HB/F growthfact; 1.

DR PROSITE; PS00225; CRYSTALLIN BETAGAMMA; UNKNOWN_1.

DR PROSITE; PS00247; HBGF_FGF; UNKNOWN_1.

FT NON TER 1

FT NON TER 1

SQ SEQUENCE 111 AA; 12607 MW; 4A3A52ED39001057 CRC64;

Query Match

Best local similarity 11.1%; Score 150.5; DB 13; Length 111;

Matches 35; Conservative 16; Mismatches 41; Indels 5; Gaps 2;

QY 51 YHLOIHKNGHVDGAPHQTIYSALMIRSEDAGFVITGVMSRRYLCDPFRGNIFGSHYFDP 110

DB 12 FHVQVLPDGIHGHSHSRSLLEISPERGVVILGVKSLFLANNRKGLTGSQXN- 70

QY 111 ENCRFQHTLENGVDVYHSPOH---FLVSLGRAKA 143

DB 71 ECKFKETLLANNYNAYESRQYPMTYIALSKNGRTKRGNEVSPMTN 107

RESULT 8

QYH31 PRELIMINARY; PRT; 218 AA.

AC QYH31; 01-MAR-2002 (T-EMBLrel. 20, Created)

DT 01-MAR-2002 (T-EMBLrel. 20, Last sequence update)

DT 01-JUN-2002 (T-EMBLrel. 21, Last annotation update)

DE Fibroblast growth factor 15.
 GN FGF15.
 OS Rattus norvegicus (Rat).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
 NCBI_TaxID=10116;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Itoh N.;
 RT "Rattus norvegicus FGF15";
 RL Submitted (JUN-2002) to the EMBL/GenBank/DBJ databases.
 DR EMBL; AB078900; BAB84298.1; -
 DR InterPro; IPR002209; HB/F_growthfact.
 DR InterPro; IPR002348; IL1_HBGF.
 DR Pfam; PF00167; FGF; 1.
 DR PRINTS; PR00262; IL1HBGF.
 DR PRODOM; PD000831; HB/F_growthfact; 1.
 DR SMART; SM00442; FGF; 1.
 DR PROSITE; PS00247; HBGF_FGF; 1.
 SQ SEQUENCE 218 AA; 25207 MW; ED898684B5307C58 CRC64;

Query Match 11.0%; Score 149.5; DB 11; Length 218;
 Best Local Similarity 26.3%; Pred. No. 2e-06;
 Matches 51; Conservative 26; Mismatches 80; Indels 37; Gaps 6;

QY 30 PLTSSWGGLHLYATARNY---HIOIKNGHVDGAPHOTIYSALMIRSEDAGFVI 85
 DB 40 PLFLYGMCKIRLOLYAGPYNSCFIRISDSVDCEBONENLLEFPAVALKTAI 99
 QY 86 TGVSRRYLICMDFRGNIFGSHYFPCNCRFOHQLENGVDYHSPQYFLVSLGRK-RA 144
 DB 100 KDVSRRYLICMADOKIYGLIRYSEDCITPREMDCIYNGYSKHLHIIIFIKARE 159
 QY 145 FLPGMNPPEYQFLSRNREPLIH-----FNTPIPRHTRSAEDSERDPL 190
 DB 160 QLOQOKP-----SNFIRIFHRSFPESTDQLRSKMFSPL-----ESDS-MDPF 201
 QY 191 NVLKRAMPAPPA 204
 DB 202 RMVEDVHLVKSFS 215

RESULT 9

QY Q9ERM3 PRELIMINARY; PRT; 192 AA.
 AC Q9ERM3;
 DT 01-MAR-2001 (TREMBlrel. 16, Created)
 DT 01-MAR-2001 (TREMBlrel. 16, Last sequence update)
 DT 01-JUN-2002 (TREMBlrel. 21, Last annotation update)
 DE Fibroblast growth factor 13.
 GN FGF13.
 OS Rattus norvegicus (Rat).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
 NCBI_TaxID=10116;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA TISSUE=DORSAL ROOT GANGLION; Guo C., Chen Z., Han Z., Zhang X.;
 RT "Rattus norvegicus fibroblast growth factor 13";
 RL Submitted (MAY-2000) to the EMBL/GenBank/DBJ databases.
 DR EMBL; AF717186; AAG15492.1; -
 DR HESP; P31371; I682.
 DR InterPro; IPR002209; HB/F_growthfact.
 DR InterPro; IPR002348; IL1_HBGF.
 DR Pfam; PF00167; FGF; 1.
 DR PRINTS; PR00262; IL1HBGF.
 DR PRODOM; PD000831; HB/F_growthfact; 1.
 DR SMART; SM00442; FGF; 1.
 DR PROSITE; PS00247; HBGF_FGF; 1.
 SQ SEQUENCE 192 AA; 21604 MW; 7736A3671677B263 CRC64;

Query Match 10.8%; Score 147.5; DB 11; Length 192;

Best Local Similarity 25.1%; Pred. No. 2.6e-06;
 Matches 54; Conservative 31; Mismatches 81; Indels 49; Gaps 10;

QY 37 GGLHLVTATARNYHIOIKNGHVDGAPHQ-TYSLMIRSEBAGVITGVMSRRLC 95
 DB 15 GIVTKLY--SRQGYHQLQADGTIDGTKDESDTYTLFNLIPVGLRVVALQGVTKLYLA 71
 QY 96 MDPFGNIFGSHYFPCNCRFOHQLENGVDYHSPQYFLVSLGRAKRAFLPGKPPYS 155
 DB 72 MNSRGYLYTSHFTPE-CKRESYFENYVYYSMIR-----QQSGRGWTLGIN----- 121
 QY 156 QFLSRNEIPLIHNTPIPRHTRSAEDSERDPLNVLKPRARMTAPASCSQ-ELPSAE 214
 DB 122 ---KEGEI-----MKGNHYVKN-----KPAARLPKPLKVMYKERSLH 157
 QY 215 D-----NSPMASDPL-GVARGGRVNTAGCT 239
 DB 158 DLTEFSRSGSGTPTKRSRVSGLNGKSMSHNEST 192

RESULT 10

QY Q8VCY9 PRELIMINARY; PRT; 245 AA.
 AC Q8VCY9;
 DT 01-MAR-2002 (TREMBlrel. 20, Created)
 DT 01-MAR-2002 (TREMBlrel. 20, Last sequence update)
 DT 01-JUN-2002 (TREMBlrel. 21, Last annotation update)
 DE Fibroblast growth factor 13.
 GN FGF13.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Strauberg R.;
 RT TISSUE=RETINA;
 RL Submitted (DEC-2001) to the EMBL/GenBank/DBJ databases.
 DR EMBL; BC018238; AAH18238.1; -
 DR WED; MG1:109178; Egl13.
 DR InterPro; IPR002209; HB/F_growthfact.
 DR InterPro; IPR002348; IL1_HBGF.
 DR Pfam; PF00167; FGF; 1.
 DR PRINTS; PR00262; IL1HBGF.
 DR PRODOM; PD000831; HB/F_growthfact; 1.
 DR SMART; SM00442; FGF; 1.
 DR PROSITE; PS00247; HBGF_FGF; 1.
 SQ SEQUENCE 245 AA; 27587 MW; 5B96D41AC3A3DF78 CRC64;

Query Match 10.8%; Score 147.5; DB 11; Length 245;
 Best Local Similarity 25.1%; Pred. No. 3.6e-06;
 Matches 54; Conservative 31; Mismatches 81; Indels 49; Gaps 10;

QY 37 GGLHLVTATARNYHIOIKNGHVDGAPHQ-TYSLMIRSEBAGVITGVMSRRLC 95
 DB 68 GIVTKLY--SRQGYHQLQADGTIDGTKDESDTYTLFNLIPVGLRVVALQGVTKLYLA 124
 QY 96 MDPFGNIFGSHYFPCNCRFOHQLENGVDYHSPQYFLVSLGRAKRAFLPGKPPYS 155
 DB 125 MNSRGYLYTSHFTPE-CKRESYFENYVYYSMIR-----QQSGRGWTLGIN----- 174
 QY 156 QFLSRNEIPLIHNTPIPRHTRSAEDSERDPLNVLKPRARMTAPASCSQ-ELPSAE 214
 DB 175 ---KEGEI-----MKGNHYVKN-----KPAARLPKPLKVMYKERSLH 210
 QY 215 D-----NSPMASDPL-GVARGGRVNTAGCT 239
 DB 211 DLTEFSRSGSGTPTKRSRVSGLNGKSMSHNEST 245

RESULT 11

QY Q95K97 PRELIMINARY; PRT; 208 AA.
 ID Q95K97

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AC Q95K97;
DT 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
DE Hypothetical 23.5 kDa protein.
OS Macaca fascicularis (Crab eating macaque) (Cynomolgus monkey).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Cercopithecoidea;
OC Cercopithecinae; Macaca.
OX NCBI_TaxID=9541;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=MEDULLA OBLONGATA;
RA Oseada N., Hida M., Kusuda J., Tanuma R., Iseki K., Hirai M., Terao K.,
RA Suzuki Y., Sugano S., Hashimoto K.;
RT "Isolation of full-length cDNA clones from macaque brain cDNA
RT libraries."
RL Submitted (JUN-2001) to the EMBL/Genbank/DBJ databases.
DR EMBL; AB063051; BAB60779.1; -.
DR InterPro; IPR002209; HB/F_growthfact.
DR Pfam; PF00167; FGF, 1.
DR ProDom; PD000831; HB/F_growthfact; 1.
DR PROSITE; PS00247; HBGF_FGF, UNKNOWN_1.
KM Hypothetical protein.
SQ SEQUENCE 208 AA; 23466 MW; 0766A787609B3661 CRC64;

Query Match 10.8%; Score 146.5; DB 6; Length 208;
Best Local Similarity 32.0%; Pred. No. 3.7e-06;
Matches 39; Conservative 20; Mismatches 54; Indels 9; Gaps 4;

QY 51 YHLQHKNGHVDGAPHOTI-YSAIMIRSEDAQFVVITGVMSRRYLQMPFRGNIFGSHYFD 109
DB 88 YFLIEKNGKXVSGTKKXCPYSILEITSEIGVAVKAINSYVLAAMKGLYSKKEFN 147
QY 110 PENCRFQHOTLNGVDVHSPQYHFLVSLGRAKRAFLPGMNPSPVSOPLSRNE-----IP 165
DB 148 -NDCKLKRIRKENGNYNTASFRWQ--HNGROMYVALMGKGAIPRGQKTRKRNTSAHFLP 203
QY 166 LI 167
DB 204 MV 205

RESULT 12
Q9YGD8
ID Q9YGD8 PRELIMINARY; PRT; 206 AA.
AC Q9YGD8;
DT 01-MAY-1999 (TrEMBLrel. 10, Created)
DT 01-MAY-1999 (TrEMBLrel. 10, Last sequence update)
DT 01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
DE Fibroblast growth factor 6-related protein.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Euteleostei;
OC Protacanthopterygii; Salmoniformes; Salmonidae; Oncorhynchus.
OX NCBI_TaxID=8022;
RN [1]
RP SEQUENCE FROM N.A.
RC MEDLINE=99096461; Pubmed=9878802;
RA Rescan P.Y.;
RT "Identification of a fibroblast growth factor 6 (FGF6) in a non-
RT mammalian vertebrate: Continuous expression of FGF6 accompanies muscle
RT fiber hyperplasia."
RL Biochim. Biophys. Acta 1443:305-314(1998).
DR EMBL; Y16850; CAAT6422.1; -.
DR HSSP; P31371; IG82.
DR InterPro; IPR001064; Crystallin.
DR InterPro; IPR002209; HB/F_growthfact.
DR InterPro; IPR002348; ILL_HBGF.
DR Pfam; PF00167; FGF, 1.
DR PRINTS; PR00262; ILIHGF.
DR ProDom; PD000831; HB/F_growthfact; 1.

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DR SMART; SM00442; FGF, 1.
DR PROSITE; PS00225; CRYSTALLIN BETA-CHAIN, UNKNOWN_1.
DR PROSITE; PS00247; HBGF_FGF, 1.
SQ SEQUENCE 206 AA; 23375 MW; BB883328F17EB6E4 CRC64;

Query Match 10.7%; Score 146; DB 13; Length 206;
Best Local Similarity 31.2%; Pred. No. 4e-06;
Matches 35; Conservative 20; Mismatches 41; Indels 16; Gaps 3;

QY 51 YHLQHKNGHVDGAPHOTIYSAIMIRSEDAQFVVITGVMSRRYLQMPFRGNIFGSHYFD 110
DB 94 YHLQVLPDGRINGTNGNNGISLEISTYERGVSLYGRSELFVAMNSRGRLYGTTHFD 153
QY 111 ENCRFQHOTLNGVDVHSPQYHFLVSLGRAKRA-----FLP 147
DB 154 E-CRFRSEMLPNNVAVYESSYVRGSYIALNHGRKRRKATMTMTVTHFLP 204

RESULT 13
Q8R4X0
ID Q8R4X0 PRELIMINARY; PRT; 211 AA.
AC Q8R4X0;
DT 01-JUN-2002 (TrEMBLrel. 21, Created)
DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
DT 01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
DE Fibroblast growth factor-like factor-4D (Fragment).
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RA Liu C., Dib-Hajj S.D., Maxman S.G.;
RT "Fibroblast growth factor homologous factor-4D."
RL Submitted (FEB-2001) to the EMBL/Genbank/DBJ databases.
DR EMBL; AF348523; AAL83904.1; -.
FT NDM TER 1
SQ SEQUENCE 211 AA; 23346 MW; 046C18019C63BA3 CRC64;

Query Match 10.6%; Score 144; DB 11; Length 211;
Best Local Similarity 24.7%; Pred. No. 6.5e-06;
Matches 54; Conservative 39; Mismatches 78; Indels 48; Gaps 11;

QY 9 WVCAICGVCSWVLRAYVNASPLLGSSGGLIHLYTATARSYHLOIHKXNDVG-----A 64
DB 11 WV--LQCIQKSLKK---NKNPTDPQKGIYTRLY---CRGYVLOWMPDGLDGTKDS 62
QY 65 PHQTIYSAIMIRSEDAQFVVITGVMSRRYLQMPFRGNIFGSHYDPENCRFQHOTLNGY 124
DB 63 TNSLTPMLIPV---GLAVVAIQVKTGLTYAMNGEGLYPSLFTPE-CKRKESVFENY 118
QY 125 DVHSPQYHFLVSLGRAKRAFLPGMN-----PPYSQPLSRNEIPLIHENT 171
DB 119 VIYSMMLYR-----QOESGRAVFLGLNKEGQVWKNRKYKTPAHAFPLKPLEVAM--YRE 172
QY 172 PIPRRHRSADDSERPLNVLKRAAMTPAPASOSEL 210
DB 173 P-----SLHDVG-----TVPKAGVTPSKSTYSAGAI 198

RESULT 14
O42407
ID O42407 PRELIMINARY; PRT; 212 AA.
AC O42407;
DT 01-JAN-1998 (TrEMBLrel. 05, Created)
DT 01-JUN-1998 (TrEMBLrel. 06, Last sequence update)
DT 01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
DE Fibroblast growth factor 10.
OS Gallus gallus (Chicken).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
OC Gallus.
OX NCBI_TaxID=9031;

```


RN (1)
 RP SEQUENCE FROM N.A.
 RX MEDLINE=9730690; PubMed=9187149;
 RA Ohuchi H., Nakagawa T., Yamamoto A., Araga A., Ohta T., Ishimaru Y.,
 RA Yoshioka H., Kuwana T., Nohno T., Yamasaki M., Itoh N., Noji S.;
 RT "The mesenchymal factor, FGF10, initiates and maintains the outgrowth
 RT of the chick limb bud through interaction with FGF8, an apical
 RT ectodermal factor."
 RL Development 124:2235-2244(1997).
 DR EMBL: D86333; BAA24945.1; -
 DR HSSP: P31371; 1G82
 DR InterPro: IPR002209; HB/F_growthfact.
 DR Pfam: PF00167; FGF, 1.
 DR ProDom: PD000831; HB/F_growthfact; 1.
 DR SMART: SM00442; FGF, 1.
 SQ SEQUENCE 212 AA; 23631 MW; AB4C0B32C72A0D90 CRC64;

Query Match 10.6%; Score 143.5; DB 13; Length 212;
 Best Local Similarity 31.9%; Pred. No. 7.3e-06;
 Matches 38; Conservative 19; Mismatches 41; Indels 21; Gaps 5;

QY 49 NSYHQLHKNQGVDAFPHQT-YSLMIRSDAGFVITGMSRRYLQMDPRGNIQSGSHY 107
 DB 90 NKYFLKLEKNGKVGSTKKNCPSTLEITVYEGVAVKSIKSNYYLANKKGVYSKE 149
 QY 108 FDPENCRFQHTLENGVDVY-----HSPQYHFLVSLGR--AKRA-----FLP 147
 DB 150 FN-SDCKLERIENGNTVYASLWKNKNGRQMFVALNGRGATKGGQKTRKNTSAHFLP 207

RESULT 15

Q8QG59 PRELIMINARY; PRT; 201 AA.
 AC O8QG59;
 DT 01-JUN-2002 (TrEMBLrel. 21, Created)
 DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
 DT 01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
 DE Fibroblast growth factor 10.
 OS Ambystoma mexicanum (Axolotl).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Caudata; Salamandroidea; Ambystomidae;
 OC Ambystoma.
 OX NCBI_TaxID=8296;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=21826199; PubMed=11836784;
 RA Christensen R.N., Weinstein M., Tasawa R.A.;
 RT "Expression of fibroblast growth factors 4, 8, and 10 in limbs,
 RT flanks, and blastemas of Ambystoma."
 RL Dev. Dyn. 223:193-203(2002).
 DR EMBL: AY034453; AAKS9700.1; -
 SQ SEQUENCE 201 AA; 22994 MW; 89EA1B61806A6F57 CRC64;

Query Match 10.5%; Score 143; DB 13; Length 201;
 Best Local Similarity 27.5%; Pred. No. 7.6e-06;
 Matches 47; Conservative 25; Mismatches 79; Indels 20; Gaps 6;

QY 6 LRLWVCLCSVC-----SMSTLRAVPNAPSLG-----SSWGLIHLYTATANSYHLQ 54
 DB 21 LLLWVSCISVTCHDLARDMLSPEVANSSVPVQVRSYKHLGVDRLRLLCVTNYFLK 80
 QY 55 IHKNGHVDGAPH-QTIYSALMIRSDAGFVITGMSRRYLQMDPRGNIQSGSHYDPENC 113
 DB 81 IDADGKVGSTTKVDCPYSVMEITSVDVGIVAVKGVSNYYLAMNEKGRVYSREFTTD-C 139
 QY 114 RFOHTLENGVDVYHSPQYHFLVSLGRARAF--LPGNPPYISOFLSRN 162
 DB 140 KTKERMENKNTYASYKMRH-----KORQMFVALNGKTPRGQKTRKN 185

Search completed: May 23, 2003, 07:45:45
 Job time : 86 secs

GenCore version 5.1.4_P5_4578
Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - protein search, using sw model

Run on: May 23, 2003, 07:41:52 ; Search time 25 Seconds

(without alignments)
416,422 Million cell updates/sec

Title: US-09-901-938-2

Sequence: 1360
1 MLGARLRRLWVCAALCSVCSSMS.....VNTAGGTGPEGCRPPAKFI 251

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 112892 seqs, 41476328 residues

Total number of hits satisfying chosen parameters: 112892

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : SwissProt_40.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	ID	Description
1	1360	100.0	251 1	FGFN_HUMAN
2	961	70.7	251 1	Q9GZV9 homo sapien
3	241	17.7	210 1	FGFN_MOUSE
4	222.5	16.4	209 1	FGFL_MOUSE
5	207	15.2	216 1	FGFL_HUMAN
6	182.5	13.4	245 1	FGPJ_MOUSE
7	180.5	13.3	239 1	FGF3_HUMAN
8	178.5	13.1	237 1	FGF3_XENLA
9	176.5	13.0	266 1	FGP5_RAT
10	171	12.6	264 1	FGF5_MOUSE
11	168.5	12.4	268 1	FGF5_HUMAN
12	167	12.3	220 1	FGF3_CHICK
13	159.5	11.7	256 1	FGFB_BRAE
14	155	11.4	192 1	FGFB_XENLA
15	151	11.1	187 1	FGFA_XENLA
16	147.5	10.8	245 1	FGFD_MOUSE
17	146.5	10.8	194 1	FGF4_CHICK
18	146.5	10.8	208 1	FGFA_HUMAN
19	146.5	10.8	215 1	FGFA_RAT
20	145.5	10.7	209 1	FGFA_MOUSE
21	144.5	10.6	245 1	FGFD_HUMAN
22	142	10.4	206 1	FGF4_BOVIN
23	141.5	10.4	208 1	FGF6_HUMAN
24	141.5	10.4	218 1	FGF6_MOUSE
25	138.5	10.2	208 1	FGF6_MOUSE
26	136.5	10.0	247 1	FGFE_MOUSE
27	135	9.9	247 1	FGFE_HUMAN
28	132.5	9.7	211 1	FGFK_HUMAN
29	132	9.7	207 1	FGFG_RAT
30	131.5	9.6	206 1	FGFA_HUMAN
31	131	9.5	202 1	FGF4_MOUSE
32	129	9.5	207 1	FGFG_HUMAN
33	128	9.4	194 1	FGF7_CANPA

34	128	9.4	194 1	FGF7_MOUSE	P36363 mus musculus
35	127	9.3	194 1	FGF7_PIG	Q9h198 sus scrofa
36	127	9.3	194 1	FGF7_SHEEP	P48808 ovys aries
37	127	9.3	243 1	FGFC_HUMAN	Q92912 homo sapien
38	126	9.3	194 1	FGF7_HUMAN	P21781 homo sapien
39	124.5	9.2	162 1	FGFM_MOUSE	Q96882 mus musculus
40	118.5	8.7	170 1	FGFM_HUMAN	Q9hct0 homo sapien
41	118	8.7	208 1	FGF9_HUMAN	P31371 homo sapien
42	118	8.7	208 1	FGF9_MOUSE	P54130 mus musculus
43	118	8.6	154 1	FGF2_RAT	P36364 rattus norv
44	117	8.6	154 1	FGF2_MOUSE	P31309 rattus norv
45	116.5	8.6	154 1	FGF2_MOUSE	P15655 mus musculus

ALIGNMENTS

RESULT 1

ID	FGFN_HUMAN	STANDARD	PRT	251 AA.
AC	Q9GZV9			
DT	16-OCT-2001 (Rel. 40, Created)			
DT	16-OCT-2001 (Rel. 40, Last sequence update)			
DT	15-JUN-2002 (Rel. 41, Last annotation update)			
DE	Fibroblast growth factor-23 precursor (FGF-23) (Tumor-derived hypophosphatemia inducing factor).			
GN	FGF23 OR HYP.			
OS	Homo sapiens (Human)			
CC	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
CC	Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.			
OX	NCBI_Taxid=9606;			
RN	[1]			
RP	SEQUENCE FROM N.A.			
RA	MEDLINE=20490027; PubMed=11032749;			
RT	Yamashita T., Yoshioke M., Itoh N.;			
RT	"Identification of a novel fibroblast growth factor, FGF-23,			
RT	preferentially expressed in the ventrolateral thalamic nucleus of the			
RT	brain."			
RL	Biochem. Biophys. Res. Commun. 277:494-498(2000).			
RN	[2]			
RP	SEQUENCE FROM N.A., VARIANTS ADHR Q-176; Q-179 AND W-179, AND			
RA	VARIANTS M-239.			
RT	MEDLINE=20517346; PubMed=11062477;			
RA	White K.E., Evans W.E., O'Riordan J.L.H., Speer M.C., Econs M.J.,			
RT	Lorenz-Dejereux B., Grabowski M., Weinger T., Strom T.M.;			
RT	"Autosomal dominant hypophosphataemic rickets is associated with			
RT	mutations in FGF23."			
RL	Nat. Genet. 26:345-348(2000).			
RN	[3]			
RP	SEQUENCE FROM N.A.			
RA	PubMed=11344269;			
RT	Shimada T., Mizutani S., Muto T., Yoneya T., Hino R., Takeda S.,			
RT	Takeuchi Y., Fujita T., Fukumoto S., Yamashita T.;			
RT	"Cloning and characterization of FGF23 as a causative factor of			
RT	tumor-induced osteomalacia."			
RL	Proc. Natl. Acad. Sci. U.S.A. 98:6500-6505(2001).			
CC	-1- SUBCELLULAR LOCATION: Secreted (Potential).			
CC	-1- DISEASE: DEFECTS IN FGF23 ARE THE CAUSE OF AUTOSOMAL DOMINANT			
CC	HYPOPHOSPHATEMIC RICKETS (ADHR). ADHR IS CHARACTERIZED BY LOW			
CC	SERUM PHOSPHORUS CONCENTRATIONS, RICKETS, OSTEOALACIA, LEG			
CC	DEFORMITIES, SHORT STATURE, BONE PAIN AND DENTAL ABSCESSES.			
CC	-1- SIMILARITY: BELONGS TO THE HEPARIN-BINDING GROWTH FACTORS FAMILY.			
CC	-----			
CC	This SWISS-PROT entry is copyright. It is produced through a collaboration			
CC	between the Swiss Institute of Bioinformatics and the EMBL outstation -			
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CC	use by non-profit institutions as long as its content is in no way			
CC	modified and this statement is not removed. Usage by and for commercial			
CC	entities requires a license agreement (See http://www.isb-sib.ch/announce/			
CC	or send an email to license@sib-sib.ch).			
CC	-----			
DR	EMBL; AB037973; BAB13477.1; -			
DR	EMBL; AF263537; AAC09917.1; -			

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DR EMBL; AB047858; BAB55889.1; -
DR HSP; P03968; IAF; FGF23.
DR Genew; HGNC:3680; FGF23.
DR MIM; 605380; -
DR MIM; 193100; -
DR InterPro; IPR002209; HB/F_growthfact.
DR InterPro; IPR002348; IL1_HBGF.
DR Pfam; PF00167; FGF; 1.
DR PRINTS; PR00262; IL1HBGF.
DR PRODOM; PD000831; HB/F_growthfact; 1.
DR SMART; SM00442; FGF; 1.
DR POSITE; PS00247; HBGF_FGF; FALSE_NEG.
DR Growth factor; Signal; Disease mutation; Polymorphism.
KM SIGNAL 1 24
FT CHAIN 25 251 FIBROBLAST GROWTH FACTOR-23.
FT VARIANT 176 176 R->Q (IN ADHR).
FT VARIANT 179 179 R->Q (IN ADHR).
FT VARIANT 179 179 R->Q (IN ADHR).
FT VARIANT 179 179 R->W (IN ADHR).
FT VARIANT 239 239 R->M.
SO SEQUENCE 251 AA; 27954 MW; 6093BD0CC50C2489 CRC64;

Query Match 100.0%; Score 1360; DB 1; Length 251;
Best Local Similarity 100.0%; Pred. No. 4e-116;
Matches 251; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLGARLRLMVALCSVCSMSVLRAPNAPSPLLGSSWGLHLHYTATARNSYHLQHNKGH 60
DB 1 MLGARLRLMVALCSVCSMSVLRAPNAPSPLLGSSWGLHLHYTATARNSYHLQHNKGH 60
QY 61 VDGAPHOTIYSALMIRSEDAFGVITGVMSRRYLQMDFRGNIFGSHYDPENCROHOTL 120
DB 61 VDGAPHOTIYSALMIRSEDAFGVITGVMSRRYLQMDFRGNIFGSHYDPENCROHOTL 120
QY 121 ENGVDVHSPQYHFLVSLGAKRAFLPGMNPYPYSOFLSRNRIPLIHNTPIPRRHTRS 180
DB 121 ENGVDVHSPQYHFLVSLGAKRAFLPGMNPYPYSOFLSRNRIPLIHNTPIPRRHTRS 180
QY 181 AEDSESDPLNLKPRARMTAPAPASCSOELPSAEDNSPMASDPLGVVGRGVNTHAGGTG 240
DB 181 AEDSESDPLNLKPRARMTAPAPASCSOELPSAEDNSPMASDPLGVVGRGVNTHAGGTG 240
QY 241 PEGCRPPAKFI 251
DB 241 PEGCRPPAKFI 251

RESULT 2
FGFN_MOUSE STANDARD; PRT; 251 AA.
AC 09ERG2;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Fibroblast growth factor-23 precursor (FGF-23).
GN FGF23.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
NCBI_TaxId=10090;
[1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20450027; PubMed=11032749;
RA Yamaehita T., Yoshioka M., Itoh N.;
RT "Identification of a novel fibroblast growth factor, FGF-23, preferentially expressed in the ventrolateral thalamic nucleus of the brain."
RL Biochem. Biophys. Res. Commun. 277:494-498(2000).
RN [2]
RP SEQUENCE FROM N.A.

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RC STRAIN=BALB/c; TISSUE=Embryo;
RX MEDLINE=20517346; PubMed=11062477;
RA White K.E., Evans W.E., O'Riordan J.L.H., Speer M.C., Reons M.J.,
RA Lorenz-Dejereux B., Grabowski M., Melinger T., Strom T.M.;
RT "Autosomal dominant hypophosphataemic rickets is associated with mutations in FGF23."
RL Nat. Genet. 26:345-348(2000).
CC CC -1 SUBCELLULAR LOCATION: Secreted (Potential).
CC CC -1 TISSUE SPECIFICITY: MAINLY EXPRESSED IN THE BRAIN AND THYMUS AT LOW LEVELS. IN BRAIN, PREFERENTIALLY EXPRESSED IN THE VENTROLATERAL THALAMIC NUCLEUS.
CC CC -1 SIMILARITY: BELONGS TO THE HEPARIN-BINDING GROWTH FACTORS FAMILY.
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CC CC
DR EMBL; AB037889; BAB13478.1; -
DR HSP; AF263536; AAC09916.1; -
DR HSP; P03968; IAF.
DR MSD; MG1:1891427; FGF23.
DR InterPro; IPR002209; HB/F_growthfact.
DR InterPro; IPR002348; IL1_HBGF.
DR Pfam; PF00167; FGF; 1.
DR PRINTS; PR00262; IL1HBGF.
DR PRODOM; PD000831; HB/F_growthfact; 1.
DR SMART; SM00442; FGF; 1.
DR POSITE; PS00247; HBGF_FGF; FALSE_NEG.
KM Growth factor; Signal.
FT SIGNAL 1 24 FIBROBLAST GROWTH FACTOR-23.
FT CHAIN 25 251
SO SEQUENCE 251 AA; 27757 MW; 110C1F2C735DC360 CRC64;

Query Match 70.7%; Score 961; DB 1; Length 251;
Best Local Similarity 70.5%; Pred. No. 5.7e-80;
Matches 177; Conservative 25; Mismatches 49; Indels 0; Gaps 0;

QY 1 MLGARLRLMVALCSVCSMSVLRAPNAPSPLLGSSWGLHLHYTATARNSYHLQHNKGH 60
DB 1 MLGARLRLMVALCSVCSMSVLRAPNAPSPLLGSSWGLHLHYTATARNSYHLQHNKGH 60
QY 61 VDGAPHOTIYSALMIRSEDAFGVITGVMSRRYLQMDFRGNIFGSHYDPENCROHOTL 120
DB 61 VDGAPHOTIYSALMIRSEDAFGVITGVMSRRYLQMDFRGNIFGSHYDPENCROHOTL 120
QY 121 ENGVDVHSPQYHFLVSLGAKRAFLPGMNPYPYSOFLSRNRIPLIHNTPIPRRHTRS 180
DB 121 ENGVDVHSPQYHFLVSLGAKRAFLPGMNPYPYSOFLSRNRIPLIHNTPIPRRHTRS 180
QY 181 AEDSESDPLNLKPRARMTAPAPASCSOELPSAEDNSPMASDPLGVVGRGVNTHAGGTG 240
DB 181 AEDSESDPLNLKPRARMTAPAPASCSOELPSAEDNSPMASDPLGVVGRGVNTHAGGTG 240
QY 241 PEGCRPPAKFI 251
DB 241 ADRCRPPRPV 251

RESULT 3
FGFL_MOUSE STANDARD; PRT; 210 AA.
AC 09JUN1;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Fibroblast growth factor-21 precursor (FGF-21).
GN FGF21.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

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OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_Taxid=10090;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20461777; PubMed=10858549;
RA Nishimura T., Nakatake Y., Konishi M., Itoh N.;
RT "Identification of a novel FGF, FGF-21, preferentially expressed in
  the liver.";
RL Biochim. Biophys. Acta 1492:203-206(2000).
[2]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Pancreas;
RX MEDLINE=21085660; PubMed=11217851;
RA Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
  Aizawa K., Iwata M., Nishi K., Kiyosawa H., Kondo S., Yamano I.,
  Saito T., Okazaki Y., Gojopori T., Bono H., Kaizuka T., Saito R.,
  Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
  Fleischmann W., Gaasterland T., Gissi C., King B., Kochiwa H.,
  Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
  Schiraldi L.M., Straubli F., Suzuki R., Tomita M., Wagner L., Washio T.,
  Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barish G.,
  Blake J., Botfield D., Bojunga N., Carninci P., de Bonaldo M.F.,
  Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,
  Guenichon S., Hill D., Hofmann M., Hume D.A., Kamliya M., Lee N.H.,
  Lyons P., Marchionni L., Mashima J., Mazzarelli U., Mombereus P.,
  Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
  Sasak H., Sato K., Schoenbach C., Seta T., Shibata Y., Storch K.F.,
  Suzuki H., Toyooka K., Wang K.H., Weitz C., Whitaker C., Wilming L.,
  Wyshaw-Boate A., Yoshida K., Hasegawa Y., Kawaji H., Kohsaki S.,
  Hayashizaki Y.;
RT "Functional annotation of a full-length mouse cDNA collection.";
RL Nature 409:685-690(2001).
CC -1- SUBCELLULAR LOCATION: Secreted (potential).
CC -1- TISSUE SPECIFICITY: MOST ABUNDANTLY EXPRESSED IN THE LIVER, ALSO
  EXPRESSED IN THE THYMUS AT LOWER LEVELS.
CC -1- SIMILARITY: BELONGS TO THE HEPARIN-BINDING GROWTH FACTORS FAMILY.
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  entities requires a license agreement (See http://www.isb-sib.ch/announce/
  or send an email to license@isb-sib.ch).
CC
CC EMBL; AB025718; BAA99416.1; -
CC HSSP; P03968; IBAR.
DR MGD; MG11861377; Fgf21.
DR InterPro; IPR002209; HB/F_growthfact.
DR Pfam; PF00167; FGF; 1.
DR PRINTS; PR00262; IL1HBGF.
DR ProDom; PD000831; HB/F_growthfact; 1.
DR SMART; SM00442; FGF; 1.
DR PROSITE; PS00247; HBGF_FGF; FALSE_NEG.
DR Growth factor; Signal.
FT SIGNAL 1 28 POTENTIAL.
FT CHAIN 29 210 FIBROBLAST GROWTH FACTOR-21.
SQ SEQUENCE 210 AA; 23237 MW; AB02NABA6477EB6F0 CRC64;

Query Match 17.7%; Score 241; DB 1; Length 210;
Best Local Similarity 32.3%; Pred. No. 7,9e-15;
Matches 71; Conservative 38; Mismatches 71; Indels 40; Gaps 8;

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OY 6 LRLWVCLCVCSCMSVLRAY--PNASPLLGSSWGGLI---HLVYATARNs-YHLQIHKNG 59
DB 11 LGLMVRLLAVFLGLGVYQAVPIPDSSPLL--QFGGVORRYLYTDDQDTFAHLEINEDG 68
OY 60 HVGGAHPQITVYSLMISSEDAAGFVITGVMSRRYLCDPFRGNITGSHYFDPENCRFQHOT 119
DB 69 TVVGAARSPBSLLELTKLRGVIQLIGVAKSRFLCOOPDALYGSHPHPEACSFRELL 128

OY 120 LENGVDVYHSPQYHFL-----VSLGRAKRKAFLPGMNPFPYSQFLSRNREIP 165
DB 129 LEDGVNVYQS--BAHGLPLRLPQKQSPNODATSWGVRLPMFGLLHEPDQ----- 178
OY 166 LIHFNTPIPRHTRSAEDDSEDPPLNVLKPRAPMAPAS 205
DB 179 -AGFLPPER-----PDVGSDDLPMWYEPLOGRSPSTAS 210

RESULT 4
FGFL_HUMAN STANDARD; PRT; 209 AA.
ID FGFL_HUMAN
AC Q9NSA1.
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Fibroblast growth factor-21 precursor (FGF-21).
GN FGF21.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
OX NCBI_Taxid=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20461777; PubMed=10858549;
RA Nishimura T., Nakatake Y., Konishi M., Itoh N.;
RT "Identification of a novel FGF, FGF-21, preferentially expressed in
  the liver.";
RL Biochim. Biophys. Acta 1492:203-206(2000).
CC -1- SUBCELLULAR LOCATION: Secreted (potential).
CC -1- SIMILARITY: BELONGS TO THE HEPARIN-BINDING GROWTH FACTORS FAMILY.
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  or send an email to license@isb-sib.ch).
CC
CC EMBL; AB021975; BAA99415.1; -
CC HSSP; P03968; IBAR.
DR Genew; HGNC:3678; FGF21.
DR InterPro; IPR002209; HB/F_growthfact.
DR Pfam; PF00167; FGF; 1.
DR PRINTS; PR00262; IL1HBGF.
DR ProDom; PD000831; HB/F_growthfact; 1.
DR SMART; SM00442; FGF; 1.
DR PROSITE; PS00247; HBGF_FGF; FALSE_NEG.
DR Growth factor; Signal.
FT SIGNAL 1 28 POTENTIAL.
FT CHAIN 29 209 FIBROBLAST GROWTH FACTOR-21.
SQ SEQUENCE 209 AA; 22300 MW; 27925C52A0023823 CRC64;

Query Match 16.4%; Score 222.5; DB 1; Length 209;
Best Local Similarity 30.8%; Pred. No. 3,7e-13;
Matches 68; Conservative 36; Mismatches 70; Indels 47; Gaps 9;

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Db 179 ---GILAPOP-----PDVGSDDLPMVGPSCGRSPSYAS 209

RESULT 5

FGF3_HUMAN STANDARD; PRT; 216 AA.

AC 095750;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Fibroblast growth factor-19 precursor (FGF-19).
GN FGF19.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Brain;
RX MEDLINE=99132028; PubMed=9931477;
RA Nishimura T., Usumomiyama Y., Hoshikawa M., Ohuchi H., Itoh N.;
RT "Structure and expression of a novel human FGF, FGF-19, expressed in the fetal brain."
RL Biochim. Biophys. Acta 1444:148-151(1999).
RN [2]
RP SEQUENCE FROM N.A.
RA Xie M.-H., Holcomb I., Deuel B., Dowd P., Huang A., Vagts A., Foster J., Brush J., Gu Q., Liang J., Hillan K., Goddard A.,
RA Gurney A.L.;
RT "FGF-19, a novel fibroblast growth factor with unique specificity for FGFRA."
RL Submitted (DEC-1998) to the EMBL/GenBank/DBJ databases.
RN [3]
RP SEQUENCE FROM N.A.
RC TISSUE=Colon;
RA Strausberg R.;
RT Submitted (DEC-2001) to the EMBL/GenBank/DBJ databases.
RL Submitted (DEC-2001) to the EMBL/GenBank/DBJ databases.
CC -1- FUNCTION: MAY BE INVOLVED IN BRAIN DEVELOPMENT DURING EMBRYOGENESIS.
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- TISSUE SPECIFICITY: EXPRESSED ONLY IN FETAL BRAIN.
CC -1- SIMILARITY: BELONGS TO THE HEPARIN-BINDING GROWTH FACTORS FAMILY.

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CC -----
DR EMBL; AB018122; BAA75500.1; -
DR EMBL; AF110400; AAD45973.1; -
DR EMBL; BC017664; AAH17664.1; -
DR HSSP; P09038; 1BFG.
DR Genew; HGNC:3675; FGF19.
DR MIM; 603891; -
DR InterPro; IPR002209; HB/F_growthfact.
DR InterPro; IPR002348; IL1_HBGF.
DR Pfam; PF00167; FGF.1.
DR PRINTS; PR00262; IL1HBGF.
DR PRODOM; PD000831; HB/F_growthfact; 1.
DR SMART; SM00442; FGF.1.
DR PROSITE; PS00247; HBGF_FGF.1.
DR Growth factor; Signal.
FT SIGNAL 1 22
FT CHAIN 23 216 POTENTIAL.
SQ SEQUENCE 216 AA; 24002 MW; E0BCBC9C220F9832 CRC64;

Query Match 15.2%; Score 207; DB 1; Length 216;
Best Local Similarity 28.8%; Pred. No. 9.9e-12;
Matches 67; Conservative 31; Mismatches 91; Indels 44; Gaps 6;

Qy 6 LRLWCAICSVCSMSVLAAYPNASPLLGSWSG---LIHLYTATAR--NSYHLOIHKNGH 60
Db 8 VHWIILAGLWLAAGRLPLAFSDAGPHVHYGWDPIRLRLHLYTSSGPHGSSCFRLRADGV 67
Qy 61 VDGAHQTIYSALMIRSEDAQFVITGVMSRRYLQMPFRGNI FGSHPDPNCRFOHQL 120
Db 68 VDCARGGSAHSLLEIKVAALRTVAIKGVHAYVRLQMGADGMQGLQYSEDCAFEEIR 127
Qy 121 ENGIDVYHSPQYHFLVSLGRKRAFLGAMP PPSQFLSRNEIPLIHNTPIPRHTRS 180
Db 128 PDGVNVYRSEKGRPLVSLSSAKQ-----RDLYKNGKGFPLSHFLMLP----- 170
Qy 181 AEDSERDPLNLVLRPRAMP-APASCSQELPSAEDNSPM---ASDPGVYRG 229
Db 171 -----MDEPDEDRGLHLESDMFSSPLETDSMDPGLVTG 205

RESULT 6

FGF3_MOUSE STANDARD; PRT; 245 AA.

AC P05524;
DT 01-NOV-1988 (Rel. 09, Created)
DT 01-NOV-1988 (Rel. 09, Last sequence update)
DT 15-JUN-2002 (Rel. 41, Last annotation update)
DE INT-2 proto-oncogene protein precursor (Fibroblast growth factor-3) (FGF-3) (HBGF-3).
GN FGF3 OR FGF-3 OR INT-2.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathu; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=86247582; PubMed=3013624;
RA Moore R., Casey G., Brookes S., Dixon M., Peters G., Dickson C.;
RT "Sequence, topography and protein coding potential of mouse int-2: a putative oncogene activated by mouse mammary tumour virus."
RL EMBO J. 5:919-924(1986).
RN [2]
RP SEQUENCE OF 1-73 FROM N.A.
RX MEDLINE=88296404; PubMed=2841106;
RA Smith R., Peters G., Dickson C.;
RT "Multiple RNAs expressed from the int-2 gene in mouse embryonal carcinoma cell lines encode a protein with homology to fibroblast growth factors."
RL EMBO J. 7:1013-1022(1988).
RN [3]
RP CHARACTERIZATION.
RX MEDLINE=91193291; PubMed=1964688;
RA Dickson C., Acland P., Smith R., Dixon M., Deed R., McAllian D., Walther W., Fuller-Pace F., Klefer P., Peters G.;
RT "Characterization of int-2: a member of the fibroblast growth factor family."
RL J. Cell Sci. Suppl. 13:87-96(1990).

CC -1- FUNCTION: COULD BE INVOLVED IN EAR DEVELOPMENT.
CC -1- INDUCTION: BY INTEGRATION OF MOUSE MAMMARY TUMOR VIRUS.
CC -1- SIMILARITY: BELONGS TO THE HEPARIN-BINDING GROWTH FACTORS FAMILY.

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CC -----
DR EMBL; Y00848; CAA68767.1; -
DR PIR; A23930; TWST2.
DR HSSP; P09038; 1BFG.
DR MGD; MGI:95517; FGF3.
DR InterPro; IPR002209; HB/F_growthfact.
DR InterPro; IPR002348; IL1_HBGF.

DR Pfam; PF00167; FGF, 1.
 DR PRINTS; PR00262; ILI_HBGF.
 DR PRODOM; PD000831; HB/F_growthfact; 1.
 DR SMART; SM00442; FGF, 1.
 DR PROSITE; PS00247; HBGF_FGF, 1.
 DR KX PROTO-oncogene; Growth factor; Mitogen; Signal; Glycoprotein.
 FT SIGNAL 1 17
 FT CHAIN 18 245
 FT CARBOHYD 65 65
 FT SEQUENCE 245 AA; 27214 MW; 70D94F6A7837C79 CRC64;
 SQ
 Query Match 13.4%; Score 182.5; DB 1; Length 245;
 Best Local Similarity 29.4%; Pred. No. 1.9e-09;
 Matches 63; Conservative 26; Mismatches 88; Indels 37; Gaps 8;
 QY 42 LYTATANSYHLQHKHGVDAHPQHTYSALMIRSEDAFGVITGVMSRRYLQMDPFGN 101
 DB 48 LYCAT---KYHLQLHPSGRVNGSLNSAYSLIETAVEGVVAIKGLPSGRYLAANKGR 104
 QY 102 IFGSHYPPENCRRHQHQLNGYDVYHSPQYHFLVSLGRAKAFILPGANPP----- 152
 DB 105 LYASDHVYAE-CEFERIHELGNTYASRLYRTGSSGPACRO--PGAQRPVYVSVNGKG 161
 QY 153 -PYGFLSRNEIPLIHNTPIPRH-----RHTSAEDDSERDPLNVLKPRARMTAPA 204
 DB 162 RPRGFKTRTKQKSLF---LPRVLGHKHHEMVRLLQSSQPRABEGSQPROR----- 211
 QY 205 SCSQELPSAEDNSPMASDPLGVNRRGVNTAG 238
 DB 212 --RQKQSPGDHGM--ETLSRATPSTQLHTGG 241
 RESULT 7
 FGF3_HUMAN
 ID FGF3_HUMAN STANDARD; PRT; 239 AA.
 AC P11487;
 DT 01-OCT-1989 (Rel. 12, Created)
 DT 01-OCT-1989 (Rel. 12, Last sequence update)
 DT 15-JUN-2002 (Rel. 41, Last annotation update)
 DE INT-2 proto-oncogene protein precursor (Fibroblast growth factor-3)
 DE (FGF-3) (HBGF-3).
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 OX NCBI_Taxid=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Placenta;
 RA MEDLINE=89239468; PubMed=2470007;
 RA Brooke S., Smith R., Casey G., Dickson C., Peters G.;
 RT "Sequence organization of the human int-2 gene and its expression in
 teratocarcinoma cells."
 RL Oncogene 4:429-436(1989).
 CC -1- FUNCTION: COULD BE INVOLVED IN EAR DEVELOPMENT.
 CC -1- SIMILARITY: BELONGS TO THE HEPARIN-BINDING GROWTH FACTORS FAMILY.
 CC
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 CC or send an email to license@isb-sib.ch).
 CC
 CC EMBL; X14445; CA32615.1; -
 CC PIR; S04742; S04742.
 CC HSSP; P31371; IGB2.
 CC Genew; HGNC:3681; FGF3.
 CC MIM; 164950; -
 CC InterPro; IPR002209; HB/F_growthfact.
 CC InterPro; IPR002348; ILI_HBGF.
 DR Pfam; PF00167; FGF, 1.

DR PRINTS; PR00262; ILI_HBGF.
 DR PRODOM; PD000831; HB/F_growthfact; 1.
 DR SMART; SM00442; FGF, 1.
 DR PROSITE; PS00247; HBGF_FGF, 1.
 DR KX PROTO-oncogene; Growth factor; Mitogen; Signal; Glycoprotein.
 FT SIGNAL 1 17
 FT CHAIN 18 239
 FT CARBOHYD 65 65
 FT SEQUENCE 239 AA; 26886 MW; 8DBEFL7DB2E3C63 CRC64;
 SQ
 Query Match 13.3%; Score 180.5; DB 1; Length 239;
 Best Local Similarity 31.0%; Pred. No. 2.8e-09;
 Matches 52; Conservative 26; Mismatches 75; Indels 15; Gaps 5;
 QY 42 LYTATANSYHLQHKHGVDAHPQHTYSALMIRSEDAFGVITGVMSRRYLQMDPFGN 101
 DB 48 LYCAT---KYHLQLHPSGRVNGSLNSAYSLIETAVEGVVAIKGLPSGRYLAANKGR 104
 QY 102 IFGSHYPPENCRRHQHQLNGYDVYHSPQYHFLVSL-----GRAKAFILPGANPP--P 153
 DB 105 LYASDHVYAE-CEFERIHELGNTYASRLYRTVSTPGAROPSAEHLWVSVNGKGRP 163
 QY 154 YSFLSRNEIPLIHNTPIPRH---TRSAEDDSERDPLNVLKPRAR 198
 DB 164 RRGFKTRTKQKSLF---LPRVLGHKHHEMVRLLQSSQPRABEGSQPROR----- 211
 RESULT 8
 FGF3_XENLA
 ID FGF3_XENLA STANDARD; PRT; 237 AA.
 AC P36386;
 DT 01-JUN-1994 (Rel. 29, Created)
 DT 01-JUN-1994 (Rel. 29, Last sequence update)
 DT 01-NOV-1997 (Rel. 35, Last annotation update)
 DE Fibroblast growth factor-3 precursor (FGF-3) (HBGF-3) (INT-2).
 DE FGF3.
 OS Xenopus laevis (African clawed frog).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Mesobatrachia; Pipidae; Pipidae;
 OC Xenopodidae; Xenopus.
 OX NCBI_Taxid=8355;
 RN [1]
 RP SEQUENCE FROM N.A., AND PARTIAL SEQUENCE.
 RC TISSUE=Neurula;
 RA MEDLINE=94038898; PubMed=8223431;
 RA Klefer P., Mathieu M., Close J.M., Peters G., Dickson C.;
 RT "FGF3 from Xenopus laevis."
 RL EMBO J. 12:4159-4168(1993).
 CC [2]
 CC SEQUENCE OF 39-137 FROM N.A.
 CC TISSUE=Neurula;
 CC MEDLINE=93048831; PubMed=1425349.
 CC Tamahill D., Isaacs H.V., Close M.J., Peters G., Slack J.M.W.;
 RT "Developmental expression of the Xenopus int-2 (FGF-3) gene:
 RT activation by mesodermal and neural induction."
 RL Development 115:695-702(1992).
 CC -1- FUNCTION: POTENT MITOGEN AND TRANSFORMING AGENT.
 CC -1- SIMILARITY: BELONGS TO THE HEPARIN-BINDING GROWTH FACTORS FAMILY.
 CC
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 CC
 CC EMBL; Z25539; CA480987.1; -
 CC EMBL; X65237; CA46341.1; -
 CC PIR; S39582; S39582.
 CC PIR; S25713; S25713.
 CC HSSP; P31371; IGB2.
 CC InterPro; IPR002209; HB/F_growthfact.
 CC InterPro; IPR002348; ILI_HBGF.

DR PFAM; PF00167; FGF; 1.
 DR PRINTS; PR00262; ILIHGFG.
 DR PRODOM; PD000831; HB/F_growthfact; 1.
 DR SMART; SM00442; FGF; 1.
 DR PROSITE; PS00247; HBGF_FGF; 1.
 KM Growth factor; Mitogen; signal; Glycoprotein.
 FT SIGNAL 1 21
 FT CHAIN 22 237
 FT CARBOHYD 83 83
 SQ SEQUENCE 237 AA; 26984 MW; EDD31B0893567A2D CRC64;
 Query March 13.1%; Score 178.5; DB 1; Length 237;
 Best Local Similarity 32.2%; Pred. No. 4.3e-09;
 Matches 55; Conservative 26; Mismatches 63; Indels 27; Gaps 8;
 QY 42 LYTAANSYHLQIHKNHVDGA-PHOTIYSALMTRESDAGFVITGVMSRRYLCMDPRG 100
 DB 66 LYCAT--KYLQIHLNKNKINGTLEKNSVFSILETTADVGLVAKGLPSGNYLMMNRG 122
 QY 101 NIFSGHYDPENCRCFOHQLENGYPVHSPOYHPLVS-----LGRARAPLPGMNP-- 152
 DB 123 RLVASETNPE-CEFEVRIHELGYNTYASRLYRTVPSGAGTRKASAEELMWVSINGGR 181
 QY 153 PYSQPLSRNE-----ILIHFN--TPIPRHTSAEDSDERDLNVLKP 195
 DB 182 PRSGFKTRTKSSLEPLRLDNKDHDVRLPHTNAVRES-----ILKP 226
 RESULT 9
 FGF5_RAT STANDARD; PRT; 266 AA.
 AC P48807; Q63402;
 DT 01-FEB-1996 (Rel. 33, Created)
 DT 01-FEB-1996 (Rel. 33, Last sequence update)
 DT 15-JUN-2002 (Rel. 41, Last annotation update)
 DE Fibroblast growth factor-5 precursor (FGF-5) (HBGF-5).
 GN FGF5 OR FGF-5.
 OS Rattus norvegicus (Rat).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
 OX NCBI_TaxID=10116;
 RN [1]
 RP SEQUENCE FROM N.A. (LONG AND SHORT ISOFORMS).
 RC STRAIN=Mistar;
 RX MEDLINE=96201703; PubMed=8611621;
 RA Hattori Y., Yamasaki M., Itoh N.;
 RT "The rat FGF-5 mRNA variant generated by alternative splicing encodes
 a novel truncated form of FGF-5."
 RL Biochim. Biophys. Acta 1306:31-33(1996).
 CC -|- ALTERNATIVE PRODUCTS: 2 ISOFORMS; A LONG FORM (SHOWN HERE) AND A
 SHORT FORM/FGF-5S; ARE PRODUCED BY ALTERNATIVE SPLICING.
 CC -|- SIMILARITY: BELONGS TO THE HEPARIN-BINDING GROWTH FACTORS FAMILY.
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 CC -----
 DR EMBL; D64085; BAA10966.1; -;
 DR EMBL; D64086; BAA10967.1; -;
 DR HSSP; P09038; 1BFG.
 DR InterPro; IPR002209; HB/F_growthfact.
 DR InterPro; IPR002348; ILI_HBGF.
 DR Pfam; PF00167; FGF; 1.
 DR PRINTS; PR00262; ILIHGFG.
 DR PRODOM; PD000831; HB/F_growthfact; 1.
 DR SMART; SM00442; FGF; 1.
 DR PROSITE; PS00247; HBGF_FGF; 1.
 KM Proto-oncogene; Growth factor; Mitogen; signal; Alternative splicing.
 FT SIGNAL 1 17
 FT SIGNAL 17

FT CHAIN 18 266
 FT DOMAIN 54 59
 FT CARBOHYD 108 108
 FT VARSPLIC 118 121
 FT VARSPLIC 122 266
 SQ SEQUENCE 266 AA; 29264 MW; 95B0AC7C0A200C CRC64;
 Query March 13.0%; Score 176.5; DB 1; Length 266;
 Best Local Similarity 28.2%; Pred. No. 7.5e-09;
 Matches 58; Conservative 34; Mismatches 75; Indels 39; Gaps 8;
 QY 28 ASPLIGSGWGLIHL--LYTATANS-----YHLQIHKNHVDGAHQIYSALM 74
 DB 63 ASP--GSGSGSSEHSSFPQWSPSGRGTGLYCRVGIGFHLQIYPDGKXVGSHEASVLSILE 120
 QY 75 IRSDDAGFVITGVMSRRYLCMDPRGIFGSHYDPENCRCFOHQLENGYPVHS----- 129
 DB 121 IFAVSQIGVIRGVPNSNFTLMSKKGKILHASAKF-TDCKFRERPOENSNTYASAIHRT 179
 QY 130 -----POYHPLVSLGRARAPLPGMNPPEYS-QFLSR--RNEIPLIHNTPIPRHTRSA 181
 DB 180 EKTREWVVALNKKGKAKGSGSPRVKQGVSTHLPKQSGQFELSTYVPER----- 234
 QY 182 EDDSERDPLNVLKPRARNTAPASCS 207
 DB 235 -----KKPPRPWKPKVPLSPSRSPS 255
 RESULT 10
 FGF5_MOUSE STANDARD; PRT; 264 AA.
 AC P15656; O88825;
 DT 01-APR-1990 (Rel. 14, Created)
 DT 01-APR-1990 (Rel. 14, Last sequence update)
 DT 15-JUN-2002 (Rel. 41, Last annotation update)
 DE Fibroblast growth factor-5 precursor (FGF-5) (HBGF-5).
 GN FGF5 OR FGF-5.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A. (LONG ISOFORM).
 RC MEDLINE=90201563; PubMed=2318343;
 RX Hebert J.M., Basilico C., Goldfarb M., Haub O., Martin G.R.;
 RT "Isolation of cDNAs encoding four mouse FGF family members and
 RT characterization of their expression patterns during embryogenesis."
 RL Dev. Biol. 138:454-463(1990).
 CC [2]
 RP SEQUENCE FROM N.A. (LONG ISOFORM).
 RC STRAIN=C57BL/6;
 RX MEDLINE=91045929; PubMed=1700424;
 RA Haub O., Drucker B., Goldfarb M.;
 RT "Expression of the murine fibroblast growth factor 5 gene in the
 RT adult central nervous system."
 RL Proc. Natl. Acad. Sci. U.S.A. 87:8022-8026(1990).
 RN [3]
 RP SEQUENCE FROM N.A. (SHORT ISOFORM).
 RA Oawa K., Suzuki S., Asada M., Tomooka Y., Li A., Yoneda A., Komi A.,
 RA Imamura T.;
 RT "An alternatively-spliced FGF-5 mRNA is abundant in brain and
 RT translates into a partial agonist/antagonist for FGF-5 neurotrophic
 RT activity."
 RL Submitted (JUL-1998) to the EMBL/GenBank/DBJ databases.
 CC -|- ALTERNATIVE PRODUCTS: 2 ISOFORMS; A LONG FORM (SHOWN HERE) AND A
 SHORT FORM/FGF-5S; ARE PRODUCED BY ALTERNATIVE SPLICING.
 CC -|- SIMILARITY: BELONGS TO THE HEPARIN-BINDING GROWTH FACTORS FAMILY.
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CC -----
DR EMBL; M30643; AAA96698.1; -.
DR EMBL; M37823; AAB02660.1; -.
DR EMBL; M37821; AAB02660.1; JOINED.
DR EMBL; M37822; AAB02660.1; JOINED.
DR EMBL; M37821; AAB02659.1; ALT. SEQ.
DR EMBL; AB016516; BAA33737.1; -.
DR PIR; A36207; A36207.
DR PIR; B37360; B37360.
DR HSSP; P09038; 1BRG.
DR MGD; MGI.95519; FGF5.
DR InterPro; IPR002209; HB/F_growthfact.
DR InterPro; IPR002348; IL1_HBGF.
DR Pfam; PF00167; FGF; 1.
DR PRINTS; PR00262; IL1HBGF.
DR ProDom; PD000831; HB/F_growthfact; 1.
DR SMART; SM00442; FGF; 1.
DR PROSITE; PS00247; HBGF_FGF; 1.
KM Proto-oncogene; Growth factor; Mitogen; Signal; Alternative splicing.
FT SIGNAL 1 17
FT CHAIN 18 264
FT DOMAIN 53 59
FT CAROHD 108 108
FT VARSPIC 118 121
FT VARSPIC 122 264
SQ SEQUENCE 264 AA; 29103 MW; F6A9C8153EE923D1 CRC64;

Query Match 12.6%; Score 171; DB 1; Length 264;
Best Local Similarity 27.9%; Pred. No.2,3e-08;
Matches 57; Conservative 35; Mismatches 72; Indels 40; Gaps 9;

OY 28 ASPLIGSSWGLIHH---LYTATARN-----YHLKHNGHVDGAPHTIYSALM 74
Db 63 ASP--GSQSGSEHSHSPQSGRRGSLYCRVGIGFHLQITPDGKVNSHASVLSILE 120
OY 75 IRSEDAGFVITGVNSRRYLQMDFRGNIFGSHYFDENCRFQHTLNGDYVHS----- 129
Db 121 IFAVSGQIGVIGVGSNKKELAMSKKGLHASAKF--TDCKFRFRPEQNSYNTYASAIHRT 179
OY 130 -----PQHFVLSLRARAKAPLPGNNPPYS-QFLSR--RNIPLIHPTPIPRHTSA 181
Db 180 EKTGEWYVALNKKRGKAKKCSPPRVQPHVSTHFLPRFQSOPELSFTVIVP----- 232
OY 182 EDDSERDPLNTVLPK--RAEMTPAP 203
Db 233 --EKKKPVPKVPKVLSPRRSPSP 254

RESULT 11
FGFS_HUMAN
ID_FGFS_HUMAN STANDARD; PRT; 268 AA.
AC P12034; O75846;
DT 01-OCT-1989 (Rel. 12, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 15-JUN-2002 (Rel. 41, Last annotation update)
DE Fibroblast growth factor-5 precursor (FGF-5) (HBGF-5) (Smag-82).
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
OX NCBI_Taxid=9606;
[1]
SEQUENCE FROM N.A. (LONG ISOFORM).
RC TISSUE=Brain stem;
EX MEDLINE=91045929; PubMed=1700424;
RA Haub O., Drucker B., Goldfarb M.;
RT "Expression of the murine fibroblast growth factor 5 gene in the
RL adult central nervous system";
RN Proc. Natl. Acad. Sci. U.S.A. 87:8022-8026(1990).
[2]
SEQUENCE FROM N.A. (LONG ISOFORM).
RP

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RX MEDLINE=89069642; PubMed=3211147
RA Zhan X., Bates B., Hu X., Goldfarb M.;
RT "The human FGF-5 oncogene encodes a novel protein related to
RL fibroblast growth factors."
RN MoJ. Cell. Biol. 8:3487-3495(1988).
RN [3]
RP SEQUENCE FROM N.A. (SHORT ISOFORM).
RA Ozawa K., Suzuki S., Aada M., Tomooka Y., Li A., Yoneda A., Komi A.,
RA Imamura I.;
RT "An alternatively-spliced FGF-5 mRNA is abundant in brain and
RT translates into a partial agonist/antagonist for FGF-5 neurotrophic
RT activity."
RL Submitted (JUL-1998) to the EMBL/GenBank/DBJ databases.
RN [4]
RP SEQUENCE FROM N.A. (SHORT ISOFORM).
RC TISSUE=Umbilical artery;
RX MEDLINE=20379035; PubMed=10823842;
RA de Vries C.J.M., van Achterberg T.A.E., Horrevoets A.J.G.,
RA ten Cate J.W., Pannekoek H.;
RT "Differential display identification of 40 genes with altered
RT expression in activated human smooth muscle cells. Local expression
RT in atherosclerotic lesions of smags, smooth muscle
RT activation-specific genes."
RL J. Biol. Chem. 275:23939-23947(2000).
CC -1- FUNCTION: THIS ONCOGENE IS EXPRESSED IN NEONATAL BRAIN. FGF-5 CAN
CC TRANSFORM NIH 3T3 CELLS.
CC -1- ALTERNATIVE PRODUCTS: 2 ISOFORMS; A LONG FORM (SHOWN HERE) AND A
CC SHORT FORM/FGF-5S; ARE PRODUCED BY ALTERNATIVE SPLICING.
CC -1- SIMILARITY: BELONGS TO THE HEPARIN-BINDING GROWTH FACTORS FAMILY.
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CC -----
CC EMBL; M37825; AAB06463.1; -
CC EMBL; M23536; AAB60699.1; -
CC EMBL; M23534; AAB60699.1; JOINED.
CC EMBL; M23535; AAB60699.1; JOINED.
CC EMBL; M23534; AAB60699.1; JOINED.
CC EMBL; AB016517; BA033738.1; -
CC EMBL; AF171928; AAF89742.1; -
CC PIR; A31194; TVHUP5.
CC HSSP; P09038; 1BFG.
CC Genew; HGNC:3683; FGFS.
CC MIM; 165190; -
CC InterPro; IPR002209; HB/F_growthfact.
CC InterPro; IPR002348; IIL_HBGF.
CC Pfam; PF00167; FGF_1.
CC PRINTS; PR00262; IILHBGF.
CC Prodom; PD000831; HB/F_growthfact; 1.
CC SMART; SM00442; FGF_1.
CC PROSITE; PS00247; HBGF_FGF_1.
CC KW Pico-oncogene; Growth factor; Mitogen; Signal; Alternative splicing.
CC SIGNAL 1 17 POTENTIAL.
CC CHAIN 18 268 FIBROBLAST GROWTH FACTOR-5.
CC DOMAIN 49 52 POLY-SER.
CC DOMAIN 55 62 POLY-SER.
CC CARBOHYD 110 110 N-LINKED (GLCNAC...) (POTENTIAL).
CC VARSPLIC 120 123 VLET -> OVHR (IN SHORT ISOFORM).
CC VARSPLIC 124 268 MISSING (IN SHORT ISOFORM).
CC CONFLICT 42 42 R -> I (IN REF. 1).
CC CONFLICT 83 85 PSGR -> LGA (IN REF. 2).
CC SEQUENCE 268 AA; 08FF4268B267B1B5D CRC64;
CC -----
Query Match 12.4%; Score 168.5; DB 1; Length 268;
Best Local Similarity 29.8%; Pred. No. 4e-08;
Matches 56; Conservative 29; Mismatches 74; Indels 29; Gaps 7;

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Db 52 SAMSSSSSSSSPPAS--LGSOGSGLEGGSPGWSPGGRRTGSLYCEVGIGFHLQIYPDGKV 109
Qy 62 DGAPHQITYSALMIRSEDAGFVITGWSRRYLQMDPFGNIGSHYFPDENCFOHOTLE 121
Db 110 NGSHEANLSTLEIFAVSOGIGVIGVSNKFLAMSKKGLHAKSAKF--TDCKFERROE 168
Qy 122 NGYVYVHS-----POYHFLVSLGRAKRAFLPGMNPPTS-QPLSR--RNEIPLIH 168
Db 169 NSYNTYASAIHRTKXTGKREWYVALNKRGKAKGCSPRVQPIHSHPLPRFQSGSEQPELS 228
Qy 169 ENTPIPRR 176
Db 229 FTVTPEK 236

RESULT 12
FGF3_CHICK STANDARD; PRT; 220 AA.
AC P48801;
DT 01-FEB-1996 (Rel. 33, Created)
DT 01-FEB-1996 (Rel. 33, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Fibroblast growth factor-3 precursor (FGF-3) (HBGF-3).
GN FGF3 OR FGF-3.
OS Gallus gallus (Chicken).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Ostrariopysii; Cypriniformes;
OC Gallus.
OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
OX NCBI_TaxID=9031;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Rhode Island red; TISSUE=Embryo;
RX MEDLINE=95309122; PubMed=7789270;
RA Mahmood R., Kiefer P., Guthrie S., Dickson C., Mason I.;
RT "Multiple roles for FGF-3 during cranial neural development in the
RT chicken.";
RL Development 121:1399-1410(1995).
CC -1- FUNCTION: POTENT MITOGEN AND TRANSFORMING AGENT (BY SIMILARITY).
CC -1- SIMILARITY: BELONGS TO THE HEPARIN-BINDING GROWTH FACTORS FAMILY.
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CC or send an email to license@isb-sib.ch).
CC -----
CC CC
DR EMBL; Z47555; CAAB7635.1; -.
DR HSSP; P31371; 1682.
DR InterPro; IPR002209; HB/F_growthfact.
DR InterPro; IPR002348; IL1_HBGF.
DR Pfam; PF00167; FGF, 1.
DR PRINTS; PR00262; IL1HBGF.
DR PRODOM; PD000831; HB/F_growthfact; 1.
DR SMART; SM00442; FGF, 1.
DR PROSITE; PS00247; HBGF_FGF, 1.
DR Growth factor; Mitogen; Signal; Glycoprotein.
KM Growth factor; Mitogen; Signal; Glycoprotein.
FT SIGNAL 19 POTENTIAL.
FT CHAIN 20 220 FIBROBLAST GROWTH FACTOR-3.
FT CARBOYD 66 66 N-LINKED (GLCNAC. . .) (POTENTIAL).
SO SEQUENCE 220 AA; 25050 MW; B15DA1D1E551C5D5 CRC64;

Query Match 12.3%; Score 167; DB 1; Length 220;
Best local similarity 33.3%; Pred. No. 4.3e-08;
Matches 49; Conservative 18; Mismatches 70; Indels 10; Gaps 4;

Qy 6 LRLM--VQALSGVGSMSYLRAPNAPSPLGSSWGLIHLTYATAR-----NSYHLQIHK 57
Db 2 LVIMLLALILPEPFPVAPATASPRAPDAGRGVYEHLGAPRRKYLCAKTKYHLQIHP 61
Qy 58 NGYVYVHS-----POYHFLVSLGRAKRAFLPGMNPPTS-QPLSR--RNEIPLIH 168

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Db 62 GCKINGTLKNSVPSILLETITVDVGIVAIKGLFSGRYLANKRGRLVASENYNTE-CEPV 120
Qy 117 HOTLENGYDVVHSPQYHFLVSLGRAKR 143
Db 121 ERIHELGYNTYASRLYRTVPSGASTKR 147

RESULT 13
FGF3_BRARE STANDARD; PRT; 256 AA.
ID FGF3_BRARE STANDARD; PRT; 256 AA.
AC P48802;
DT 01-FEB-1996 (Rel. 33, Created)
DT 01-FEB-1996 (Rel. 33, Last sequence update)
DT 01-NOV-1997 (Rel. 35, Last annotation update)
DE Fibroblast growth factor-3 precursor (FGF-3) (HBGF-3).
GN FGF3 OR FGF-3.
OS Brachydanio rerio (Zebrafish) (Danio rerio).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Ostariopysii; Cypriniformes;
OC Cyprinidae; Danio.
OX NCBI_TaxID=7955;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=96204005; PubMed=8622866;
RA Kiefer P., Strahle U., Mason I., Dickson C.;
RT "Secretion and mitogenic activity of zebrafish FGF3 reveal
RT intermediate properties relative to mouse and Xenopus homologues.";
RL Oncogene 12:1503-1511(1996).
CC -1- FUNCTION: POTENT MITOGEN AND TRANSFORMING AGENT (BY SIMILARITY).
CC -1- SIMILARITY: BELONGS TO THE HEPARIN-BINDING GROWTH FACTORS FAMILY.
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CC or send an email to license@isb-sib.ch).
CC -----
CC CC
DR EMBL; Z48714; CAAB8596.1; -.
DR HSSP; P09038; 1BFG.
DR ZFIN; ZDB-GENE-980526-178; fgf3.
DR InterPro; IPR002209; HB/F_growthfact.
DR InterPro; IPR002348; IL1_HBGF.
DR Pfam; PF00167; FGF, 1.
DR PRINTS; PR00262; IL1HBGF.
DR PRODOM; PD000831; HB/F_growthfact; 1.
DR SMART; SM00442; FGF, 1.
DR PROSITE; PS00247; HBGF_FGF, 1.
DR Growth factor; Mitogen; Signal; Glycoprotein.
KM Growth factor; Mitogen; Signal; Glycoprotein.
FT SIGNAL 18 POTENTIAL.
FT CHAIN 19 256 FIBROBLAST GROWTH FACTOR-3.
SO SEQUENCE 256 AA; 28923 MW; CEBAC7A110BDBC CRC64;

Query Match 11.7%; Score 159.5; DB 1; Length 256;
Best local similarity 37.2%; Pred. No. 2.5e-07;
Matches 42; Conservative 13; Mismatches 39; Indels 19; Gaps 5;

Qy 42 LYTATANSYHLOIHKXGNDGA-PHOTIYALMIRSEDAGFVITGWSRRYLQMDPFG 100
Db 66 LYCAT--KYLQIHPKNGKIDSLBNPNPILLETITVDVGVAIKGLFSGRYLANNEKG 122
Qy 101 NIFGSYVDPENCRFQHOTLENGYDVVHSPQYHFLVSLGRAKRAFLPGMNPPTS 153
Db 123 RLVSAYEVNRR-CEFLRIHILGINTYAS-RHATT-----QPPP 160

RESULT 14
FGFB_XENLA STANDARD; PRT; 192 AA.
AC P48805;
DT 01-FEB-1996 (Rel. 33, Created)

```

DT 01-FEB-1996 (Rel. 33, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE Fibroblast growth factor-4-II precursor (FGF-4-II) (HBGF-4-II)
 DE Embryonic fibroblast growth factor II) (XERGF-II).
 OS Xenopus laevis (African clawed frog).
 CC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 CC Amphibia; Batrachia; Anura; Mesobatrachia; Pipidae; Pipidae;
 CC Xenopodinae; Xenopus.
 NC NCB1_TaxID=8335;
 RN NCB1_TaxID=8335;
 RP SEQUENCE FROM N.A.
 RA MEDLINE=92315916; PubMed=1618138;
 RA Isaacs H.V., Tannahill D., Slack J.M.W.;
 RT "Expression of a novel FGF in the Xenopus embryo. A new candidate
 RT inducing factor for mesoderm formation and anteroposterior
 RT specification.";
 RL Development 114:711-720(1992).
 CC -1- FUNCTION: GOOD CANDIDATE FOR AN INDUCING FACTOR WITH POSSIBLE
 CC ROLES BOTH IN MESODERM INDUCTION AT THE BLASTULA STAGE AND IN THE
 CC FORMATION OF THE ANTEROPOSTERIOR AXIS AT THE GASTRULA STAGE.
 CC -1- SUBCELLULAR LOCATION: Secreted (Probable).
 CC -1- SIMILARITY: BELONGS TO THE HEPARIN-BINDING GROWTH FACTORS FAMILY.
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 CC -----
 DR EMBL; X62594; CAA44480.1; -;
 DR HSSP; P31371; 1682.
 DR InterPro; IPR002209; HB/F_growthfact.
 DR InterPro; IPR002348; IL1_HBGF.
 DR Pfam; PF00167; FGF; 1.
 DR PRINTS; PR00262; IL1HBGF.
 DR PRODOM; PD000831; HB/F_growthfact; 1.
 DR SMART; SM00442; FGF; 1.
 DR PROSITE; PS00247; HBGF_FGF; 1.
 DR Growth factor; Mitogen; Signal.
 FT SIGNAL 1 22
 FT CHAIN 23 192
 FT SEQUENCE 192 AA; 21903 MW; 2B01B0B8824E3B3 CRC64;
 SQ
 Query Match 11.4%; Score 155; DB 1; Length 192;
 Best Local Similarity 31.9%; Pred. No. 4.4e-07;
 Matches 30; Conservative 25; Mismatches 37; Indels 2; Gaps 2;
 QY 51 YHLOIHKNHGVDGAPHOTIYSALMIRSEDAFGVITGVMSRRYLCMDPRGNIFGSHYDP 110
 DB 80 FHIOVLPGRLNGMSEBRYSLLLEISPEVEGVVSLYGVKSGMFMVAMNAKGLYGSRYFN- 138
 QY 111 ENCRFOHOTLENGDVVHSPOY-HFLVSLGRAXR 143
 DB 139 BECKFKETLLPNNVAYESRKYPGMYIALGKNGR 172
 RESULT 15
 ID FGFA_XENLA STANDARD; PRT; 187 AA.
 AC P48805;
 DT 01-FEB-1996 (Rel. 33, Created)
 DT 01-FEB-1996 (Rel. 33, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE Fibroblast growth factor-4-I precursor (FGF-4-I) (HBGF-4-I) (Embryonic
 DE fibroblast growth factor I) (XERGF-I).
 OS Xenopus laevis (African clawed frog).
 CC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 CC Amphibia; Batrachia; Anura; Mesobatrachia; Pipidae; Pipidae;
 CC Xenopodinae; Xenopus.
 NC NCB1_TaxID=8335;
 RN NCB1_TaxID=8335;
 RN [1]

RP SEQUENCE FROM N.A.
 RX MEDLINE=92315916; PubMed=1618138;
 RA Isaacs H.V., Tannahill D., Slack J.M.W.;
 RT "Expression of a novel FGF in the Xenopus embryo. A new candidate
 RT inducing factor for mesoderm formation and anteroposterior
 RT specification.";
 RL Development 114:711-720(1992).
 CC -1- FUNCTION: GOOD CANDIDATE FOR AN INDUCING FACTOR WITH POSSIBLE
 CC ROLES BOTH IN MESODERM INDUCTION AT THE BLASTULA STAGE AND IN THE
 CC FORMATION OF THE ANTEROPOSTERIOR AXIS AT THE GASTRULA STAGE.
 CC -1- SUBCELLULAR LOCATION: Secreted (Probable).
 CC -1- SIMILARITY: BELONGS TO THE HEPARIN-BINDING GROWTH FACTORS FAMILY.
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 CC -----
 DR EMBL; X62593; CAA44479.1; -;
 DR HSSP; P31371; 1682.
 DR InterPro; IPR002209; HB/F_growthfact.
 DR InterPro; IPR002348; IL1_HBGF.
 DR Pfam; PF00167; FGF; 1.
 DR PRINTS; PR00262; IL1HBGF.
 DR PRODOM; PD000831; HB/F_growthfact; 1.
 DR SMART; SM00442; FGF; 1.
 DR PROSITE; PS00247; HBGF_FGF; 1.
 DR Growth factor; Mitogen; Signal.
 FT SIGNAL 1 22
 FT CHAIN 23 187
 FT SEQUENCE 187 AA; 21223 MW; AA63D6582AD1BD CRC64;
 SQ
 Query Match 11.1%; Score 151; DB 1; Length 187;
 Best Local Similarity 31.9%; Pred. No. 9.8e-07;
 Matches 30; Conservative 24; Mismatches 38; Indels 2; Gaps 2;
 QY 51 YHLOIHKNHGVDGAPHOTIYSALMIRSEDAFGVITGVMSRRYLCMDPRGNIFGSHYDP 110
 DB 75 FHIOVLPGRLNGMSEBRYSLLLEISPEVEGVVSLYGVKSGMFMVAMNAKGLYGSRYFN- 133
 QY 111 ENCRFOHOTLENGDVVHSPOY-HFLVSLGRAXR 143
 DB 134 BECKFKETLLPNNVAYESRKYPGMYIALGKNGR 167
 Search completed: May 23, 2003, 07:43:46
 Job time : 26 secs

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OM protein - protein search, using sw model

Run on: May 23, 2003, 07:41:52 ; Search time 20 Seconds

(without alignments)
1206.487 Million cell updates/sec

Title: US-09-901-938-2

Perfect score: 1360

Sequence: 1 MLGARRLMWCAALCSVCSSMS.....VNTHAGTGPEGRCPFAKFI 251

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283224 seqs, 96134422 residues

Total number of hits satisfying chosen parameters: 283224

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : PIR_73.*

1: p1r1.*

2: p1r2.*

3: p1r3.*

4: p1r4.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	961	70.7	251	2	JC7513 fibroblast growth
2	182.5	13.4	245	1	TVMS72 transforming prote
3	180.5	13.3	239	1	SO4742 fibroblast growth
4	178.5	13.1	237	1	S39582 transforming prote
5	176.5	13.0	266	2	S68144 fibroblast growth
6	171	12.6	264	2	A36207 fibroblast growth
7	169	12.4	267	1	TVHUP5 fibroblast growth
8	167	12.3	220	2	I50588 fibroblast growth
9	159.5	11.7	256	2	JC4627 fibroblast growth
10	155	11.4	192	2	S54407 embryonic fibrobla
11	151	11.1	187	2	S23595 embryonic fibrobla
12	146.5	10.8	194	2	I50710 fibroblast growth
13	141.5	10.4	208	2	S20102 fibroblast growth
14	138.5	10.2	208	2	S14192 fibroblast growth
15	138	10.1	206	2	JC4268 fibroblast growth
16	132.5	9.7	211	2	JC7353 fibroblast growth
17	132	9.7	207	2	JC5940 fibroblast growth
18	131.5	9.7	206	1	TVHUS fibroblast growth
19	131	9.6	202	1	TVMSHS fibroblast growth
20	130.5	9.6	212	2	JC7511 fibroblast growth
21	129	9.5	207	2	JC5941 fibroblast growth
22	128	9.4	194	2	S26049 fibroblast growth
23	128	9.4	194	2	I48610 keratinocyte growt
24	127	9.3	168	2	JG0184 fibroblast growth
25	127	9.3	194	2	S49501 keratinocyte growt
26	126	9.3	194	1	A36301 fibroblast growth
27	121.5	8.9	208	2	JC7082 fibroblast somatoc
28	118	8.7	208	2	S66486 fibroblast growth
29	118	8.7	208	2	A48137 fibroblast growth

30	117	8.6	154	2	A31674 basic fibroblast g
31	116.5	8.6	154	2	C37360 basic fibroblast g
32	116.5	8.6	164	2	S31622 basic fibroblast g
33	115.5	8.5	137	2	I46711 fibroblast growth
34	115.5	8.5	146	1	S00185 basic fibroblast g
35	115.5	8.5	157	1	GKBOB basic fibroblast g
36	115.5	8.5	210	2	A32398 basic fibroblast g
37	107.5	7.9	155	2	S04147 basic fibroblast g
38	107.5	7.9	155	2	D37360 acidic fibroblast
39	106.5	7.8	155	2	A60130 acidic fibroblast
40	105.5	7.8	155	1	A60721 acidic fibroblast
41	103	7.6	189	2	A48834 basic fibroblast g
42	101	7.4	155	1	GKBOA basic fibroblast g
43	100	7.4	215	2	G02092 fibroblast growth
44	100	7.4	215	2	A46245 fibroblast growth
45	99.5	7.3	155	2	JW0055 acidic fibloblast

ALIGNMENTS

RESULT 1
JC7513
fibroblast growth factor-23 - mouse
C:Species: Mus musculus (house mouse)
C:Date: 30-Jun-2001 #sequence_revision 30-Jun-2001 #text_change 30-Jun-2001
C:Accession: JC7513
R:Yamashita, T.; Yoshida, M.; Itoh, N.
Biochem. Biophys. Res. Commun. 277, 494-498, 2000
A:Title: Identification of a novel fibroblast growth factor, FGF-23, preferentially exp
A:Reference number: JC7513; PMID:20490027; PMID:11032749
A:Contents: Embryo
A:Accession: JC7513
A:Molecule type: mRNA
A:Residues: 1-251 <YAM>
A:Cross-references: DDB:AB037889
C:Comment: This factor, a secreted protein, acts on proximal cells and plays roles in
C:Genetics:
A:Gene: fgf-23
C:Keywords: nucleus

Query Match 70.7%; Score 961; DB 2; Length 251;
Best Local Similarity 70.5%; Pred. No. 5.4e-80;
Matches 177; Conservative 25; Mismatches 49; Indels 0; Gaps 0;

QY	1	MLGARRLMWCAALCSVCSSMSVLRAPNAPSILGSSWGLHLVTATANSYHLQIHKNKH	60
DB	1	MLGTCLRLVGLCTVCSLGTARAVPDTSPLGSSWGLTLVLTATARTSYHLQIHKGH	60
QY	61	VDGAPHQITVSALMIRSDAGFVVITGVMSRRYLCPMPFRGNIFGSHYDPENCRPHQTL	120
DB	61	VDGTHQITVSALMIRSDAGFVVITGVMSRRYLCPMDLHGINFSLHSPENCKRQWTL	120
QY	121	ENGVDVHSPQYHPLVLSGRKRAFLPGMNPPEYQSFLSRNEIPLHNPPIPRHRS	180
DB	121	ENGIDVHLSQKHHTVLSGRKRIIPGCTNPPPSQFLARNEVPLHNPPIPRHRS	180
QY	181	AEDSERDPLNLVLRAPMTAPASCSQELPSADNSPMADDPGVVYVGRVNTHAGGTG	240
DB	181	AEDPERDPLNLVLRAPMTAPVPSCSRELPSAEEGGAADPLGVLRGADGARGAGG	240
QY	241	PEGCRPFPAKFI 251	
DB	241	ADRCRPFPRFV 251	

RESULT 2
TVMS72
transforming protein (int-2) - mouse
C:Species: Mus musculus (house mouse)
C:Date: 31-Dec-1989 #sequence_revision 31-Dec-1989 #text_change 18-Jun-1999
C:Accession: A23930; S08157
R:Moore, R.; Casey, G.; Brookes, S.; Dixon, M.; Peters, G.; Dickson, C.

EMBO J. 5, 919-924, 1986
 A>Title: Sequence, topography and protein coding potential of mouse int-2: a putative on
 A/Reference number: A23930; MUID:86247582; PMID:5013624
 A/Accession: A23930
 A/Molecule type: DNA; mRNA
 A/Residues: 1-245 <MOO>
 A/Cross-references: GB:Y00848; GB:M26284; GB:X68450; NID:g52716; PIDN:CAA68767.1; PID:g5
 A/Land, P.; Dixon, M.; Peters, G.; Dickson, C.
 Nature 343, 663-665, 1990
 A>Title: Subcellular fate of the int-2 oncoprotein is determined by choice of initiation
 A/Reference number: S08157; MUID:90158795; PMID:2406607
 A/Accession: S08157
 A/Status: not compared with conceptual translation
 A/Molecule type: mRNA
 A/Residues: HSRAGLARGVLPAPRLRETRAGAAAAAGRDAGW, 3-17 <ACU>
 A/Genetics:
 A/Genes: int-2
 A/Map position: 7
 A/Intons: 74/1; 108/3
 C/Superfamily: fibroblast growth factor
 C/Keywords: growth factor; transforming protein

Query Match 13.4%; Score 182.5; DB 1; Length 245;
 Best Local Similarity 29.4%; Pred. No. 4.2e-09;
 Matches 63; Conservative 26; Mismatches 88; Indels 37; Gaps 8;

QY 42 LYTATANSYHLOIHKNGHVDGAPHOITYSALMIRSEDAGFVITGVMSRRYLCPMPFRGN 101
 DB 48 LYCAT---KYLQHPISGRVNGSLNSAYSLILEITAVEGVIAIGLPSGRILANNKGR 104
 QY 102 IFGSHYDPENCRCFOHQLNGYDVYHSPQYHFLVSLRAKRAFLPGMNP----- 152
 DB 105 LVASDHVNAE-CEVERHIEHGLNTYASRLYRTGSSGGAQRQ--PGAQRPVYVSVNGK 161
 QY 153 -PYSQFLSRNEIPLIHNTPIPR-----RHTSAEDSERDPLNVLKPRARTRPA 204
 DB 162 RPRGFTRRQKSLF---LPRVLGKHDEHVALILSSQPRAGESQPRQ----- 211
 QY 205 SCQGLPSAEDNSPMASDPLGVNRGRVNTAGG 238
 DB 212 --RQKQSPGDHGM--ETLSTRATPSTQHTGG 241

RESULT 3
 S04742
 fibroblast growth factor 3 precursor - human
 N/Alternate names: transforming protein int-2
 C/Species: Homo sapiens (man)
 C/Date: 10-Sep-1999 #sequence, revision 10-Sep-1999 #text_change 29-Sep-1999
 C/Accession: S04742
 R/Brookes, S.; Smith, R.; Casey, G.; Dickson, C.; Peters, G.
 Oncogene 4, 429-436, 1989
 A>Title: Sequence organization of the human int-2 gene and its expression in teratocarc
 A/Reference number: S04742; MUID:9239468; PMID:2470007
 A/Accession: S04742
 A/Molecule type: DNA
 A/Residues: 1-239 <BRO>
 A/Cross-references: EMBL:X14445; NID:g33937; PIDN:CAA2615.1; PID:g312409
 C/Genetics:
 A/Genes: GDB:RGF3, INT2
 A/Cross-references: GDB:120103; OMIM:164950
 A/Map position: 11q13.3-11q13.3
 A/Intons: 74/1; 108/3
 C/Superfamily: fibroblast growth factor
 C/Keywords: growth factor
 P.1-17/Domain: signal sequence #status predicted <SIG>
 P.18-239/Product: transforming protein (int-2) #status predicted <MAT>

Query Match 13.3%; Score 180.5; DB 1; Length 239;
 Best Local Similarity 31.0%; Pred. No. 6.1e-09;
 Matches 52; Conservative 26; Mismatches 75; Indels 15; Gaps 5;
 QY 42 LYTATANSYHLOIHKNGHVDGAPHOITYSALMIRSEDAGFVITGVMSRRYLCPMPFRGN 101

DB 48 LYCAT---KYLQHPISGRVNGSLNSAYSLILEITAVEGVIAIGLPSGRILANNKGR 104
 QY 102 IFGSHYDPENCRCFOHQLNGYDVYHSPQYHFLVSL-----GRAKRAFLPGMNP--P 153
 DB 105 LVASDHVNAE-CEVERHIEHGLNTYASRLYRTVSGAGTKKASAEKRLMYVSVNGKRP 163
 QY 154 YSOFLSRNEIPLIHNTPIPRH---TRSAEDSERDPLNVLKPRAR 198
 DB 164 RPRGFTRRQKSLFPLRVLDHDEHVRQLOQSLPRPPGQVQPRR 211

RESULT 4
 S39582
 transforming protein int-2 - African clawed frog
 N/Alternate names: FGF-3 protein; fibroblast growth factor 3
 C/Species: Xenopus laevis (African clawed frog)
 C/Date: 10-Sep-1999 #sequence, revision 10-Sep-1999 #text_change 10-Sep-1999
 C/Accession: S39582; S25713
 R/Kiefer, P.; Mathieu, M.; Close, M.D.; Peters, G.; Dickson, C.
 EMBO J. 12, 4159-4168, 1993
 A>Title: FGF3 from Xenopus laevis.
 A/Reference number: S39582; MUID:94038898; PMID:8223431
 A/Accession: S39582
 A/Status: preliminary
 A/Molecule type: mRNA
 A/Residues: 1-237 <KIE>
 A/Cross-references: EMBL:Z25539; NID:g396830; PIDN:CAA80987.1; PID:g396831
 R/Tamamilli, D.; Isaacs, H.V.; Close, M.C.; Peters, G.; Slack, J.M.W.
 Development 115, 695-702, 1992
 A>Title: Developmental expression of the Xenopus int-2 (FGF-3) gene: activation by mes
 A/Reference number: S25713; MUID:93048831; PMID:1425349
 A/Accession: S25713
 A/Status: preliminary
 A/Molecule type: mRNA
 A/Residues: 39-137 <TAN>
 A/Cross-references: EMBL:X65237; NID:g64855; PIDN:CAA46341.1; PID:g64856
 C/Superfamily: fibroblast growth factor

Query Match 13.1%; Score 178.5; DB 1; Length 237;
 Best Local Similarity 32.2%; Pred. No. 9.2e-09;
 Matches 55; Conservative 26; Mismatches 63; Indels 27; Gaps 8;

QY 42 LYTATANSYHLOIHKNGHVDGAPHOITYSALMIRSEDAGFVITGVMSRRYLCPMPFRG 100
 DB 66 LYCAT---KYLQHPISGRVNGSLNSAYSLILEITAVEGVIAIGLPSGRILANNKGR 122
 QY 101 NIFGSHYDPENCRCFOHQLNGYDVYHSPQYHFLVSL-----LGRAKRAFLPGMNP-- 152
 DB 123 RVASSETYNE-CEVERHIEHGLNTYASRLYRTVSGAGTKKASAEKRLMYVSVNGKGR 181
 QY 153 PYSQFLSRNEIPLIHNTPIPRH---TRSAEDSERDPLNVLKPR 195
 DB 182 RPRGFTRRQKSLFPLRVLDHDEHVRQLOQSLPRPPGQVQPRR 226

RESULT 5
 S68144
 fibroblast growth factor 5 - rat
 C/Species: Rattus norvegicus (Norway rat)
 C/Date: 06-Dec-1996 #sequence, revision 13-Mar-1997 #text_change 20-Jun-2000
 C/Accession: S68144
 R/Hattori, Y.; Yamaaki, M.; Itoh, N.
 Biochim. Biophys. Acta 1306, 31-33, 1996
 A>Title: The rat FGF-5 mRNA variant generated by alternative splicing encodes a novel
 A/Reference number: S68144; MUID:96201703; PMID:8611821
 A/Accession: S68144
 A/Status: preliminary; nucleic acid sequence not shown
 A/Molecule type: mRNA
 A/Residues: 1-266 <HAT>
 A/Cross-references: EMBL:D64085; NID:g992952; PIDN:BAAL0966.1; PID:g992953
 C/Superfamily: fibroblast growth factor

```
Query Match 13.0%; Score 176.5; DB 2; Length 266;
Best Local Similarity 28.2%; Pred. No. 1.6e-08;
Matches 58; Conservative 34; Mismatches 75; Indels 39; Gaps 8;

QY 28 ASPLLGSSWGLIY---LYTATARN-----YHLOIHKNGHVDGAPHOTIYSALM 74
DB 63 ASPLGSGSGSEHSFQWSPSGRGTSLYCRVIGIHFLOIYPDGKVNSEHSALVSLILE 120
QY 75 IRSEDAGFVITGVMSRRYLCDPFRGNIFGSHYFDPENCFOHOTLENGYDVYHS----- 129
DB 121 IFVAVSGIVGIRGVFNSKFLAMSKKGLHASAKF-TDDCKFRERFOENSYNTYASAIHRT 179
QY 130 -----POYHFLVSLGRAKRAFLPGMNPPEYS-QFLSR--RNEIPLIHNTPIPRHRTSA 181
DB 180 EKTGREWVVALNKRGKAKRGCSPRVKPQHVSTHFLPRFQSGSEPELSFTVYPER----- 234
QY 182 EDDSERDPLNLKPRARMTAPASCS 207
DB 235 -----KKPPRPWKPKVPLSPSRSPS 255

RESULT 6
A36207
fibroblast growth factor 5 - mouse
C/Species: Mus musculus (house mouse)
C/Date: 28-Mar-1991 #sequence_revision 28-Mar-1991 #text_change 17-Mar-2000
C/Accession: A36207; B37360
R/Haub, O.; Drucker, B.; Goldfarb, M.
Proc. Natl. Acad. Sci. U.S.A. 87, 8022-8026, 1990
A/Title: Expression of the murine fibroblast growth factor 5 gene in the adult central
A/Reference number: A36207; MUID:91045929; PMID:1700424.
A/Accession: A36207
A/Status: preliminary; not compared with conceptual translation
A/Molecule type: DNA
A/Residues: 1-264 <HAU>
A/Cross-references: GB:M37821; GB:M37822; GB:M37823; NID:G193280; PIDN:AA802660.1; PID:G
R/Hebert, J.M.; Basillio, C.; Goldfarb, M.; Haub, O.; Martin, G.R.
Dev. Biol. 138, 454-463, 1990
A/Title: Isolation of cDNAs encoding four mouse FGF family members and characterization
A/Reference number: A37360; MUID:90201563; PMID:2318343
A/Accession: B37360
A/Status: preliminary
A/Molecule type: mRNA
A/Residues: 1-264 <HBB>
A/Cross-references: GB:M30643; NID:G193294; PIDN:AAA96698.1; PID:G309238
C/Superfamily: fibroblast growth factor

Query Match 12.6%; Score 171; DB 2; Length 264;
Best Local Similarity 27.9%; Pred. No. 5.1e-08;
Matches 57; Conservative 35; Mismatches 72; Indels 40; Gaps 9;

QY 28 ASPLLGSSWGLIY---LYTATARN-----YHLOIHKNGHVDGAPHOTIYSALM 74
DB 63 ASPLGSGSEHSFQWSPSGRGTSLYCRVIGIHFLOIYPDGKVNSEHSALVSLILE 120
QY 75 IRSEDAGFVITGVMSRRYLCDPFRGNIFGSHYFDPENCFOHOTLENGYDVYHS----- 129
DB 121 IFVAVSGIVGIRGVFNSKFLAMSKKGLHASAKF-TDDCKFRERFOENSYNTYASAIHRT 179
QY 130 -----POYHFLVSLGRAKRAFLPGMNPPEYS-QFLSR--RNEIPLIHNTPIPRHRTSA 181
DB 180 EKTGREWVVALNKRGKAKRGCSPRVKPQHVSTHFLPRFQSGSEPELSFTVYPER----- 232
QY 182 EDDSERDPLNLKPRARMTAPASCS 203
DB 233 -----KKPPRPWKPKVPLSPSRSPS 254

RESULT 7
TVHUP5
fibroblast growth factor 5 - human
N:Alternate names: transforming protein FGFS
C/Species: Homo sapiens (man)

Query Match 12.4%; Score 169; DB 1; Length 267;
Best Local Similarity 30.5%; Pred. No. 7.9e-08;
Matches 57; Conservative 27; Mismatches 75; Indels 28; Gaps 7;

QY 15 SVCSWVLRAYVNASPLLGSSWGLI---IHYTATARN-----SYHLOIHKNGHVD 62
DB 52 SAMSSSSASSSPAS--IGSGSGIEGSSFWMSGARTGSLYCRVIGIHFLOIYPDGKVN 109
QY 63 GAPHOTIYSALMIRSEDAGFVITGVMSRRYLCDPFRGNIFGSHYFDPENCFOHOTLEN 122
DB 110 GSHEANMLVLEIFAVSGIVGIRGVFNSKFLAMSKKGLHASAKF-TDDCKFRERFOEN 168
QY 123 GYDVYHS-----POYHFLVSLGRAKRAFLPGMNPPEYS-QFLSR--RNEIPLIHNT 169
DB 169 SYNTYASAIHRTKTEKREWVVALNKRGKAKRGCSPRVKPQHVSTHFLPRFQSGSEPELSF 228
QY 170 NTPIPRR 176
DB 229 TVTYPBK 235

RESULT 8
I50588
fibroblast growth factor 3 - chicken
C/Species: Gallus gallus (chicken)
C/Date: 13-Sep-1996 #sequence_revision 13-Sep-1996 #text_change 17-Mar-2000
C/Accession: I50588
R/Mahood, R.; Klefer, P.; Guthrie, S.; Dickson, C.; Mason, I.
Development 121, 1399-1410, 1995
A/Title: Multiple roles for FGF-3 during cranial neural development in the chicken.
A/Reference number: I50588; MUID:95309122; PMID:7789270
A/Accession: I50588
A/Status: preliminary; translated from GB/EMBL/DBJ
A/Molecule type: mRNA
A/Residues: 1-220 <MAH>
A/Cross-references: EMBL:Z47555; NID:G623215; PIDN:CAA87635.1; PID:G623216
C/Superfamily: fibroblast growth factor

Query Match 12.3%; Score 167; DB 2; Length 220;
Best Local Similarity 33.3%; Pred. No. 9.3e-08;
Matches 49; Conservative 18; Mismatches 70; Indels 10; Gaps 4;

QY 6 LRIM--VCALCSVCSWVLRAYVNASPLLGSSWGLIHYTATARN-----NSYHLOIHK 57
DB 2 LVIMLLALLLPBRVPAATAAPRADGGRGVNHLGAPRRRLKYCTKTHLOIHP 61
QY 58 NGHYDGA-PHOTIYSALMIRSEDAGFVITGVMSRRYLCDPFRGNIFGSHYFDPENCFO 116
DB 62 GSKINGTLERKNSVPSILEITAVDVGIVAIGKLFSGRYLANKRGRLYASEVYNT-CEFV 120
QY 117 HOTLENGYDVYHSPOYHFLVSLGRAKR 143
DB 121 ERIHELGYNTYASRLYRTVPSGASTKR 147

RESULT 9
```

JC4627
 fibroblast growth factor 3 - zebra fish
 C/Species: Brachydanio rerio (zebra fish)
 C/Date: 10-May-1996 #sequence_revision 19-Jul-1996 #text_change 16-Jul-1999
 C/Accession: JC4627
 R/RefSeq: P.; Strechle, U.; Dickson, C.
 Gene 168, 211-215, 1996
 A/Title: The zebrafish Fgf-3 gene: cDNA sequence, transcript structure and genomic organ
 A/Reference number: JC4627; MUID:96194899; PMID:8654946
 A/Accession: JC4627
 A/Molecule type: mRNA
 A/Residues: 1-256 <KTB>
 A/Cross-references: EMBL:Z48714; NID:9971333; PIDN:CAA8856.1; PID:9971334
 A/Experimental source: embryo
 A/Note: The authors translated the codon TGG for residue 178 as His
 C/Comment: This factor belongs to the fibroblast growth factor family which have the fur
 otein is a cell signalling molecule and plays the roles during the early stages of devel
 C/Genetics:
 A/Gene: Fgf-3
 A/Intons: 93/2; 127/3
 A/Superfamily: fibroblast growth factor
 C/Keywords: embryo; fibroblast; growth factor

Query Match 11.7%; Score 159.5; DB 2; Length 256;
 Best Local Similarity 37.2%; Pred. No. 5.5e-07;
 Matches 42; Conservative 13; Mismatches 39; Indels 19; Gaps 5;

42 LYRTAARSHYLOHKNHVDGA-PHOTYSALMIRSEDAFVITGVMSRRYLCMDRFG 100
 Db LYCAT--KYLQHPNKIGSLSENNPLSLTETADVGVAAKGFSGGYLLMNERG 122
 101 NIFGSHYDPENCERFOHTLENGYDVYHSPGYHFLVSLGRAKRFLPGNNPP 153
 Db RLYASEVNRRE-CETLERIHEIGVTVAS-RHMTT-----QPP 160

RESULT 10
 S54407
 embryonic fibroblast growth factor II - African clawed frog
 C/Species: Xenopus laevis (African clawed frog)
 C/Date: 06-Sep-1996 #sequence_revision 13-Mar-1997 #text_change 17-Mar-2000
 C/Accession: S54407
 R/Isaacs, H.V.; Tannahill, D.; Slack, J.M.W.
 Development 114, 711-720, 1992
 A/Title: Expression of a novel FGF in the Xenopus embryo. A new candidate inducing facto
 A/Reference number: S23595; MUID:92315916; PMID:1618138
 A/Accession: S54407
 A/Status: preliminary
 A/Molecule type: mRNA
 A/Residues: 1-192 <ISA>
 A/Cross-references: EMBL:X62594; NID:9840919; PIDN:CAA44480.1; PID:9840920
 C/Superfamily: fibroblast growth factor

Query Match 11.4%; Score 155; DB 2; Length 192;
 Best Local Similarity 31.9%; Pred. No. 9.7e-07;
 Matches 30; Conservative 25; Mismatches 37; Indels 2; Gaps 2;

51 YHLOIHKNGHVDGAPHOTYSALMIRSEDAFVITGVMSRRYLCMDRGNIFGSHYDP 110
 Db FHIQVLPGRINGMHNERNRYSLLISPEVGVSLYGIKSAFVAMNKKGLYGRYFN- 138
 111 ENCRFOHTLENGYDVYHSPGY-HFLVSLGRKR 143
 Db EECKFKETLLPNNYNAVESRKYPGMYIALGKNGR 172

RESULT 11
 S23595
 embryonic fibroblast growth factor - African clawed frog
 C/Species: Xenopus laevis (African clawed frog)
 C/Date: 19-Feb-1994 #sequence_revision 10-Nov-1995 #text_change 16-Jul-1999
 C/Accession: S23595
 R/Isaacs, H.V.; Tannahill, D.; Slack, J.M.W.

Development 114, 711-720, 1992
 A/Title: Expression of a novel FGF in the Xenopus embryo. A new candidate inducing fac
 A/Reference number: S23595; MUID:92315916; PMID:1618138
 A/Accession: S23595
 A/Molecule type: mRNA
 A/Residues: 1-187 <ISA>
 A/Cross-references: EMBL:X62593; NID:964692; PIDN:CAA44479.1; PID:964693
 C/Superfamily: fibroblast growth factor

Query Match 11.1%; Score 151; DB 2; Length 187;
 Best Local Similarity 31.9%; Pred. No. 2.2e-06;
 Matches 30; Conservative 24; Mismatches 38; Indels 2; Gaps 2;

51 YHLOIHKNGHVDGAPHOTYSALMIRSEDAFVITGVMSRRYLCMDRGNIFGSHYDP 110
 Db FHIQVLPGRINGMHNERNRYSLLISPEVGVSLYGIKSAFVAMNKKGLYGRYFN- 133
 111 ENCRFOHTLENGYDVYHSPGY-HFLVSLGRKR 143
 Db EECKFKETLLPNNYNAVESRKYPGMYIALGKNGR 167

RESULT 12
 150710
 fibroblast growth factor 4 - chicken
 C/Species: Gallus gallus (chicken)
 C/Date: 13-Sep-1996 #sequence_revision 13-Sep-1996 #text_change 16-Jul-1999
 C/Accession: S78506; S50858; I50710
 R/Niswander, L.
 submitted to the EMBL Data Library, September 1994
 A/Reference number: S78506
 A/Accession: S78506
 A/Molecule type: DNA
 A/Residues: 1-194 <NTS>
 A/Cross-references: EMBL:U14654; NID:9609347; PIDN:AAA58706.1; PID:9609348
 R/Niswander, L.; Jeffrey, S.; Martin, G.R.; Tickle, C.
 Nature 371, 609-612, 1994
 A/Title: A positive feedback loop coordinates growth and patterning in the vertebrate
 A/Reference number: 150710; MUID:95021713; PMID:7935794
 A/Accession: S50858
 A/Status: nucleic acid sequence not shown
 A/Molecule type: DNA
 A/Residues: 1-136, 'O', 137-194, 'I' <NTM>
 A/Cross-references: EMBL:U14654; NID:9609347; PIDN:AAA58706.1; PID:9609348
 C/Genetics:
 A/Gene: FGFR4
 C/Superfamily: fibroblast growth factor
 C/Keywords: growth factor; transforming protein

Query Match 10.8%; Score 146.5; DB 2; Length 194;
 Best Local Similarity 31.1%; Pred. No. 5.9e-06;
 Matches 51; Conservative 22; Mismatches 68; Indels 23; Gaps 7;

3 GABRLWVWALC--SVCSMSVLR--AYPNASPLIGSGWCGIHLTYTARSYHLOHKN 58
 Db GPRGRMDALPAASVARLPAPERDAPADGDLG--YKRLRLYL-CNVGIGFHIQVLPD 89
 59 GHVGDAPHOTYSALMIRSEDAFVITGVMSRRYLCMDRGNIFGSHYDPENCERFOHQ 118
 Db GRIGIHSNNRYSLLISPEVGVSLYGIKSAFVAMNKKGLYGRYFN-CKRKEI 148
 119 TLNGYDVYHSPGYHFLVSLGRKR-----FLP 147
 Db LLPNNYNAVESRIYPGMYIALSKNGRRTKGNKVSPTMTVTHTFLP 192

RESULT 13
 S20102
 fibroblast growth factor 6 precursor - human
 N/Alternate names: fibroblast growth factor-related protein FGF 6; transforming protei
 C/Species: Homo sapiens (man)
 C/Date: 18-Feb-1994 #sequence_revision 12-Apr-1996 #text_change 21-Jul-2000
 C/Accession: S20102; S23739; S04204; S36910

R;Coulter, F.; Batez, M.; Marice, I.; de Lapeyriere, O.; Birnbaum, D.
 Oncogene 6, 1437-1444, 1991
 A>Title: Putative structure of the FGF6 gene product and role of the signal peptide.
 A/Reference number: S20102; MUID:91360279; PMID:1886714
 A/Accession: S20102
 A>Status: not compared with conceptual translation
 A/Molecule type: DNA
 A/Residues: 1-208 <COU>
 A/Cross-references: EMBL:X57075
 A/Note: It is uncertain whether Met-1, Met-11 or Met-34 is the initiator
 R;Iida, S.; Yoshida, T.; Naito, K.; Sakamoto, H.; Katoh, O.; Hirohashi, S.; Sato, T.; On
 Oncogene 7, 303-309, 1992
 A>Title: Human hst-2 (FGF-6) oncogene: cDNA cloning and characterization.
 A/Reference number: S23739; MUID:92195660; PMID:1549352
 A/Accession: S23739
 A/Molecule type: mRNA
 A/Residues: 1-208 <IID>
 A/Cross-references: EMBL:X63454
 A/Note: It is uncertain whether Met-1 or Met-11 is the initiator
 R;Marice, I.; Adelaide, J.; Raynaud, F.; Mattei, M.G.; Coulter, F.; Planche, J.; de Lape
 Oncogene 4, 335-340, 1989
 A>Title: Characterization of the HST-related FGF-6 gene, a new member of the fibroblast
 A/Reference number: S04204; MUID:89201880; PMID:2649847
 A/Accession: S04204
 A/Molecule type: DNA
 A/Residues: 81-99, 'G', 101-208 <MAR>
 A/Cross-references: EMBL:X14071; NID:931354; PIDN:CAB37648.2; PID:94467836
 C/Genetics:
 A/Gene: GDB:FGF6; hst-2
 A/Cross-references: GDB:119908; OMIM:134921
 A/Map position: 12p13-12p13
 A/Intons: 115/3; 150/2
 C/Superfamily: fibroblast growth factor
 F,1-40/Domain: (or 11-40 or 34-40) signal sequence #status predicted <SIG>
 F,41-208/Product: fibroblast growth factor 6 #status predicted <MAT>
 Query Match 10.4%; Score 141.5; DB 2; Length 208;
 Best Local Similarity 28.7%; Pred. No. 1.8e-05;
 Matches 41; Conservative 21; Mismatches 56; Indels 25; Gaps 6;
 QY 28 ASPLIGSSW-CGLI-----HLYTATARNSTYHLQIHKNQHVDAAPHOTYSALMIRSD 79
 DB 66 AGEISGVWMSGYLVGIRKQRRLY-CNVGIGPHLVLPDGRISGTHEENPISLSTIVE 124
 QY 80 AGEVVTGMSRRYLQMPFRGNI FGSHPYDPENCRFQHTLENGDYVHSPOYH----FL 135
 DB 125 RGVVSLFEGVRSALFVAMNSKGRVATPSFQ-ECKFRFTLLPNNYNAVESDLYRGTYIAL 183
 QY 136 VSLGRAKRA-----FLP 147
 DB 184 SKYGRVKRGSKVSPIMVTYTHFLP 206
 RESULT 14
 S14192
 Fibroblast growth factor 6 - mouse
 C/Species: Mus musculus (house mouse)
 C/Date: 21-Nov-1993 #sequence revision 10-Nov-1995 #text_change 17-Mar-2000
 C/Accession: S14192; I49665; I49664
 R;de Lapeyriere, O.; Rosnet, O.; Benharroch, D.; Raynaud, F.; Marchetto, S.; Planche, J.
 Oncogene 5, 823-831, 1990
 A>Title: Structure, chromosome mapping and expression of the murine Fgf-6 gene.
 A/Reference number: S14192; MUID:90295275; PMID:2193291
 A/Accession: S14192
 A/Molecule type: DNA
 A/Residues: 1-208 <LAP>
 A/Cross-references: EMBL:X51552
 A/Note: It is uncertain whether Met-1 or Met-11 is the initiator
 R;Ollendorff, V.; Rosnet, O.; Marice, I.; Birnbaum, D.; delapeyriere, O.
 Biochimie 74, 1035-1038, 1992
 A>Title: Isolation and sequence of the murine Fgf6 cDNA.
 A/Reference number: I49664; MUID:93120244; PMID:1477139
 A/Accession: I49665

A>Status: preliminary; translated from GB/EMBL/DBJ
 A/Molecule type: mRNA
 A/Residues: 19-208 <RS>
 A/Cross-references: GB:M92416; NID:9193286; PIDN:AAA62260.1; PID:9666915
 A/Accession: I49664
 A>Status: preliminary; translated from GB/EMBL/DBJ
 A/Molecule type: DNA
 A/Residues: 1-18 <RE2>
 A/Cross-references: GB:M92415; NID:9193286; PIDN:AAA62260.1; PID:9193287
 C/Genetics:
 A/Gene: Fgf6
 A/Intons: 116/1; 150/3
 C/Superfamily: fibroblast growth factor
 Query Match 10.2%; Score 138.5; DB 2; Length 208;
 Best Local Similarity 28.7%; Pred. No. 3.4e-05;
 Matches 41; Conservative 21; Mismatches 56; Indels 25; Gaps 6;
 QY 28 ASPLIGSSW-CGLI-----HLYTATARNSTYHLQIHKNQHVDAAPHOTYSALMIRSD 79
 DB 66 AGEISGVWMSGYLVGIRKQRRLY-CNVGIGPHLVLPDGRISGTHEENPISLSTIVE 124
 QY 80 AGEVVTGMSRRYLQMPFRGNI FGSHPYDPENCRFQHTLENGDYVHSPOYH----FL 135
 DB 125 RGVVSLFEGVRSALFVAMNSKGRVATPSFQ-ECKFRFTLLPNNYNAVESDLYRGTYIAL 183
 QY 136 VSLGRAKRA-----FLP 147
 DB 184 SKYGRVKRGSKVSPIMVTYTHFLP 206
 RESULT 15
 JC4268
 fibroblast growth factor 4 - bovine
 N/Alternate names: transforming protein hst
 C/Species: Bos primigenius taurus (cattle)
 C/Date: 10-Nov-1995 #sequence revision 08-Feb-1996 #text_change 17-Mar-2000
 C/Accession: JC4268
 R;Yu, J.C.; Desseabra, A.U.J.; Wang, L.M.; Fleming, T.P.; Chedd, M.; Miki, T.; Heidaran
 Gene 162, 333-334, 1995
 A>Title: An unexpected transforming gene in calf-thymus carrier DNA: Bovine hst.
 A/Reference number: JC4268; MUID:96032369; PMID:7557455
 A/Accession: JC4268
 A/Molecule type: mRNA
 A/Residues: 1-206 <YU>
 A/Cross-references: GB:U15969
 A/Note: The authors translated the codon GGC for residue 114 as Ser
 C/Comment: This protein is a member of fibroblast growth factor family. The hstgene in
 C/Genetics:
 A/Gene: hst
 A/Intons: 113/3; 145/2
 C/Superfamily: fibroblast growth factor
 C/Keywords: thymus; transforming protein
 Query Match 10.1%; Score 138; DB 2; Length 206;
 Best Local Similarity 32.1%; Pred. No. 3.8e-05;
 Matches 36; Conservative 16; Mismatches 44; Indels 16; Gaps 3;
 QY 51 YHLDIHKNGHVDAAPHOTYSALMIRSDAGFVITGVMSRRYLQMPFRGNI FGSHPYDP 110
 DB 94 FHLQVLDPGRIGVHADTSDLLSLSPYRGVSLFVVASRFFVAMNSRGRVLSGSPFTD 153
 QY 111 ENCFQHTLENGDYV---HSPQYHFLVSLGRAKRA-----FLP 147
 DB 154 E-CRFRFTLLPNNYNAVECDRHDPFTALSNGGRKAGKNRVSPTMKYTHFLP 204
 Search completed: May 23, 2003, 07:44:12
 Job time : 21 secs

GenCore version 5.1.4.p5_4578
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OM protein - protein search, using sw model

Run on: May 23, 2003, 07:43:22 ; Search time 734 Seconds

(without alignments)
33.913 Million cell updates/sec

Title: US-09-901-938-2

Perfect score: 1360

Sequence: 1 MGARLRIMVWVLCVSCVMS.....VNTHAGCTPBGCPRAKTI 251

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 375593 seqs, 99172665 residues

375593

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications, AA:
1: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB pep.*
2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB pep.*
3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB pep.*
4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB pep.*
5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB pep.*
6: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB pep.*
7: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB pep.*
8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB pep.*
9: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB pep.*
10: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB pep.*
11: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB pep.*
12: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB pep.*
13: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB pep.*
14: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1360	100.0	251	9	US-09-901-938-2
2	1360	100.0	251	9	US-09-992-598-511
3	1360	100.0	251	9	US-09-989-292A-511
4	1360	100.0	251	9	US-09-989-735-511
5	1360	100.0	251	9	US-09-990-444-511
6	1360	100.0	251	9	US-09-989-436-511
7	1360	100.0	251	9	US-09-990-436-511
8	1360	100.0	251	9	US-09-991-181-511
9	1360	100.0	251	9	US-09-993-687-511
10	1360	100.0	251	9	US-09-989-734-511
11	1360	100.0	251	9	US-10-028-072-266
12	1360	100.0	251	9	US-09-997-653-511
13	1360	100.0	251	9	US-10-121-049-266
14	1360	100.0	251	9	US-10-123-804-266
15	1360	100.0	251	9	US-10-140-470-266
16	1360	100.0	251	9	US-09-924-340-26
17	1360	100.0	251	9	US-09-990-438-511
18	1360	100.0	251	9	US-09-990-562-511
19	1360	100.0	251	9	US-09-990-562-511

20	1360	100.0	251	9	US-09-992-600A-26	Sequence 26, Appl
21	1360	100.0	251	9	US-09-997-428-511	Sequence 511, App
22	1360	100.0	251	9	US-09-997-666-511	Sequence 511, App
23	1360	100.0	251	9	US-10-175-746-266	Sequence 266, App
24	1360	100.0	251	9	US-10-176-918-266	Sequence 266, App
25	1360	100.0	251	9	US-10-176-921-266	Sequence 266, App
26	1360	100.0	251	9	US-09-990-711-511	Sequence 511, App
27	1360	100.0	251	9	US-10-137-865-266	Sequence 266, App
28	1360	100.0	251	9	US-10-140-474-266	Sequence 266, App
29	1360	100.0	251	9	US-10-142-431-266	Sequence 266, App
30	1360	100.0	251	9	US-10-143-114-266	Sequence 266, App
31	1360	100.0	251	9	US-09-989-726-511	Sequence 511, App
32	1360	100.0	251	9	US-10-140-002-266	Sequence 266, App
33	1360	100.0	251	9	US-09-990-437-511	Sequence 511, App
34	1360	100.0	251	9	US-09-998-156-511	Sequence 511, App
35	1360	100.0	251	9	US-10-142-419-266	Sequence 266, App
36	1360	100.0	251	9	US-09-991-157-511	Sequence 266, App
37	1360	100.0	251	9	US-09-991-172-511	Sequence 511, App
38	1360	100.0	251	9	US-09-997-514-511	Sequence 511, App
39	1360	100.0	251	9	US-09-997-573-511	Sequence 511, App
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41	1360	100.0	251	9	US-10-142-423-266	Sequence 266, App
42	1360	100.0	251	9	US-09-990-443-511	Sequence 511, App
43	1360	100.0	251	9	US-09-990-726-511	Sequence 511, App
44	1360	100.0	251	9	US-09-997-559-511	Sequence 511, App
45	1360	100.0	251	9	US-09-997-601-511	Sequence 511, App

ALIGNMENTS

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RESULT 1
US-09-901-938-2
; Sequence 2, Application US/09901938
; Patent No. US20020156001A1
; GENERAL INFORMATION:
; APPLICANT: ECONS, Michael
; APPLICANT: WHITE, Kenneth
; APPLICANT: STROM, Tim
; APPLICANT: MEITINGER, Thomas
; TITLE OF INVENTION: NOVEL FIBROBLAST GROWTH FACTOR (FGF23) AND METHODS FOR USE
; FILE REFERENCE: 053884-5001
; CURRENT APPLICATION NUMBER: US/09/901,938
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/219,137
; PRIOR FILING DATE: 2000-07-19
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 2
; LENGTH: 251
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-901-938-2

Query Match      100.0%; Score 1360; DB 9; Length 251;
Best Local Similarity 100.0%; Pred. No. 2.1e-123;
Matches 251; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 121 ENGVYVHSQYHFLVSLGRAKAFPLGKMPPEYSGFLSRNRIPLIHNTPIPRHTRS 180
QY 181 AEDDSRDPPLNVAKPRARMTAPASCSOEPLSADNSPMASDPLGVVGRGVNTHAGGTS 240
Db 181 AEDDSRDPPLNVAKPRARMTAPASCSOEPLSADNSPMASDPLGVVGRGVNTHAGGTS 240

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Qy 241 PEGCRPAKFI 251
Db 241 PEGCRPAKFI 251

RESULT 2

US-09-992-598-511
Sequence 511, Application US/09992598
Patent No. US20020160384A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrare, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Geritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, V. Christopher
APPLICANT: Gurney, Aubert L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zhen
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C20
CURRENT APPLICATION NUMBER: US/09/992,598
CURRENT FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
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PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 1360; DB 9; Length 251;
Best Local Similarity 100.0%; Pred. No. 2,1e-123;
Matches 251; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 61 VDGAPHQITYSLMTRSEDAGFVITGVMSRRYLCAIDFPGNTFGSHYFDPENCRFQHOTL 120
QY 121 ENGXYDVYHSPQYHFLVSLGRARAPFLPGNPPYQFLSRNEIPLIHNTPIPRRHTS 180
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QY 181 AEDDSERDPLNVLKPRARMTAPASCSQELPSAEDNSPMAADPLGVYRGGRVNTHAGTG 240
DB 181 AEDDSERDPLNVLKPRARMTAPASCSQELPSAEDNSPMAADPLGVYRGGRVNTHAGTG 240
QY 241 PEGCRPEAKFI 251
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RESULT 3
US-09-989-293A-511
Sequence 511, Application US/09989293A
Patent No. US2002017164A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnuyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gottlieb, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
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APPLICANT: Napier, Mary A.
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APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tunas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C66
CURRENT FILING DATE: 2001-11-20
PRIOR APPLICATION NUMBER: US/09/989, 293A
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PRIOR FILING DATE:	1998-06-19
PRIOR APPLICATION NUMBER:	60/090246
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PRIOR FILING DATE:	1998-07-07
PRIOR APPLICATION NUMBER:	60/091962
PRIOR FILING DATE:	1998-07-07
PRIOR APPLICATION NUMBER:	60/092182
PRIOR FILING DATE:	1998-07-09

Query Match

100.0%; Score 1360; DB 9; Length 251;

Best Local Similarity 100.0%; Pred. No. 2,1e-123;
Matches 251; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 241 PEGCRPPAKFI 251
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RESULT 4
US-09-989-735-511
Sequence 511, Application US/09989735
Publication No. US20020193299A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnovers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Geiber, Hanspeter
APPLICANT: Gerltsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
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APPLICANT: Tumas, Daniel
APPLICANT: Matanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P27301P61
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PRIOR FILING DATE: 2001-11-19
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PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633

PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 1360; DB 9; Length 251;
Best Local Similarity 100.0%; Pred. No. 2,1e-123; Indels 0; Gaps 0;
Matches 251; Conservative 0; Mismatches 0;

QY 1 MGLARLRWVLCALSCVCSMSVLRAPVNPASPLLGSSWGLIHLHYATANSYHLQIKKKG 60
DB 1 MGLARLRWVLCALSCVCSMSVLRAPVNPASPLLGSSWGLIHLHYATANSYHLQIKKKG 60
QY 61 VDGAHQITVIALMIRSDAGFVITGVMSRRYLCMDFRNIFGSHYDPENCRFQHOTL 120
DB 61 VDGAHQITVIALMIRSDAGFVITGVMSRRYLCMDFRNIFGSHYDPENCRFQHOTL 120
QY 121 ENGVDVHSPQYHPLVLSGRKRAFLPGMNPYPYQSFLSRNEIPLHNTPIPRHTRS 180
DB 121 ENGVDVHSPQYHPLVLSGRKRAFLPGMNPYPYQSFLSRNEIPLHNTPIPRHTRS 180
QY 181 AEDSERDPLVNLKPRAMTPAPASCSQELPSADNSPMASDPLGVYRGVHTAGGTG 240
DB 181 AEDSERDPLVNLKPRAMTPAPASCSQELPSADNSPMASDPLGVYRGVHTAGGTG 240
QY 241 PEGCRPFAPKFI 251
DB 241 PEGCRPFAPKFI 251

RESULT 5

US-09-990-444-511
Sequence 511, Application US/09990444
Publication No. US20020193300A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Deenoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary B.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tamas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730PIC19
CURRENT APPLICATION NUMBER: US/09/990,444
CURRENT FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12

PRIOR APPLICATION NUMBER: 60/065311
 PRIOR FILING DATE: 1997-11-13
 PRIOR APPLICATION NUMBER: 60/066770
 PRIOR FILING DATE: 1997-11-24
 PRIOR APPLICATION NUMBER: 60/075945
 PRIOR FILING DATE: 1998-02-25
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 PRIOR APPLICATION NUMBER: 60/083222
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 PRIOR APPLICATION NUMBER: 60/089105
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 PRIOR APPLICATION NUMBER: 60/089440
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 PRIOR FILING DATE: 1998-06-16
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PRIOR APPLICATION NUMBER: 60/091478
PRIOR FILING DATE: 1998-07-02
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PRIOR FILING DATE: 1998-07-02
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PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 1360; DB 9; Length 251;
Best Local Similarity 100.0%; Pred. No. 2,1e-123;
Matches 251; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLGARLRWVCLGVCMSVTRAPNAPSLGSSWGLIHLYTARSTYLOTHKNGH 60
DB 1 MLGARLRWVCLGVCMSVTRAPNAPSLGSSWGLIHLYTARSTYLOTHKNGH 60
QY 61 VDGAPHQITYSALMRSEADGPFVITGVNSRRYLCDMDFRNI FGSHPDPCRFQHOTL 120
DB 61 VDGAPHQITYSALMRSEADGPFVITGVNSRRYLCDMDFRNI FGSHPDPCRFQHOTL 120
QY 121 ENGVDVNSPOYHFLVLSGRAPRAFLPGMNPYPYQFLSRNEIPLIHNTPIPRHTRS 180
DB 121 ENGVDVNSPOYHFLVLSGRAPRAFLPGMNPYPYQFLSRNEIPLIHNTPIPRHTRS 180
QY 181 AEDSERPLWVKRAMPTRPAPASCQELPSAEDNSPAPASPLGVNKGRTAGGTG 240
DB 181 AEDSERPLWVKRAMPTRPAPASCQELPSAEDNSPAPASPLGVNKGRTAGGTG 240
QY 241 PEGCRPPAKFI 251
DB 241 PEGCRPPAKFI 251

RESULT 6

US-09-989-730-511
Sequence 511, Application US/09989730
Publication No. US20020197674A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrare, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gottlieb, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kijavich, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
Acids Encoding the Same

FILE REFERENCE: P2730P1C69
CURRENT APPLICATION NUMBER: US/09/989, 730
CURRENT FILING DATE: 2001-11-20
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
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PRIOR FILING DATE: 1997-11-12
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 PRIOR APPLICATION NUMBER: 60/091478
 PRIOR FILING DATE: 1998-07-02
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 PRIOR FILING DATE: 1998-07-02
 PRIOR APPLICATION NUMBER: 60/091633
 PRIOR FILING DATE: 1998-07-02
 PRIOR APPLICATION NUMBER: 60/091978
 PRIOR FILING DATE: 1998-07-07
 PRIOR APPLICATION NUMBER: 60/091982
 PRIOR FILING DATE: 1998-07-07
 PRIOR APPLICATION NUMBER: 60/092182
 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 1360; DB 9; Length 251;
 Best Local Similarity 100.0%; Pred. No. 2,1e-123; Mismatches 0; Indels 0; Gaps 0;
 Matches 251; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MGARLRMLVCAICSVCSMSVLRAYPNASPLIGSSWGLIHLTYTATANSYHLQTHKNGH 60
 Db 1 MGARLRMLVCAICSVCSMSVLRAYPNASPLIGSSWGLIHLTYTATANSYHLQTHKNGH 60
 Qy 61 VDGAPHQTITGALMIRSDADGAVVITGVMSRRYLCMDFRGNIFGSHYDPENCREFQHOTL 120
 Db 61 VDGAPHQTITGALMIRSDADGAVVITGVMSRRYLCMDFRGNIFGSHYDPENCREFQHOTL 120
 Qy 121 ENGVDVHSPQYHFLVNSIGRAKRAFLPGMNPYPYQSLSRNEIPLHFNTPIPRRHRS 180
 Db 121 ENGVDVHSPQYHFLVNSIGRAKRAFLPGMNPYPYQSLSRNEIPLHFNTPIPRRHRS 180
 Qy 181 AEDSERDPLNLKPRARMTAPASCSOELPSAEDNSPMAADPIGVVAGRVNTAGGTG 240
 Db 181 AEDSERDPLNLKPRARMTAPASCSOELPSAEDNSPMAADPIGVVAGRVNTAGGTG 240
 Qy 241 PEGCRPPAKFI 251
 Db 241 PEGCRPPAKFI 251

RESULT 7
 US-09-990-436-511
 Sequence 511, Application US/09990436
 Publication No. US20020198148A1
 GENERAL INFORMATION:
 APPLICANT: Ashkenazi, Avi J.
 APPLICANT: Baker, Kevin P.
 APPLICANT: Botstein, David
 APPLICANT: Desnoyers, Luc
 APPLICANT: Eaton, Dan L.
 APPLICANT: Ferrara, Napoleone
 APPLICANT: Fong, Sherman
 APPLICANT: Gerber, Hanspeter
 APPLICANT: Gerlitsen, Mary E.
 APPLICANT: Goddard, Audrey
 APPLICANT: Godowski, Paul J.
 APPLICANT: Grimaldi, J. Christopher
 APPLICANT: Gurney, Austin L.
 APPLICANT: Kijavain, Ivar J.
 APPLICANT: Napier, Mary A.
 APPLICANT: Pan, James
 APPLICANT: Paoni, Nicholas F.

APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zhenli
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C14
CURRENT APPLICATION NUMBER: US/09/390,436
PRIOR FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
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PRIOR APPLICATION NUMBER: 60/078910
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PRIOR APPLICATION NUMBER: 60/088167
PRIOR FILING DATE: 1998-06-05
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PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 1360; DB 9; Length 251;
Best Local Similarity 100.0%; Pred. No. 2,1e-123;

Matches 251; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGARLRMLVCAICSCVSCMSYLRAYPNASPLIGSSWGLIHLYTATANSYHLQIHKKGH 60
DB 1 MGARLRMLVCAICSCVSCMSYLRAYPNASPLIGSSWGLIHLYTATANSYHLQIHKKGH 60
QY 61 VDGAPHQITYSALMIRSEADAGFVVITGVMSRRYLICMDFRGNIFGSHYDPEKCRQHQTL 120
DB 61 VDGAPHQITYSALMIRSEADAGFVVITGVMSRRYLICMDFRGNIFGSHYDPEKCRQHQTL 120
QY 121 ENGDDVYHSPQYHPLVSGRAKRALPGMNPYPYQFLSRNEIPLIHNTPIPRRHTRS 180
DB 121 ENGDDVYHSPQYHPLVSGRAKRALPGMNPYPYQFLSRNEIPLIHNTPIPRRHTRS 180
QY 181 AEDSERDPLVLRKPRAMTPAPASCSOEIPSAEDNSPMASDPLGVNAGRVNTAGGTG 240
DB 181 AEDSERDPLVLRKPRAMTPAPASCSOEIPSAEDNSPMASDPLGVNAGRVNTAGGTG 240
QY 241 PEGCRPPAKFI 251
DB 241 PEGCRPPAKFI 251

RESULT 8
US-09-991-181-511

Sequence 511, Application US/09991181

Publication No. US20020197615A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

APPLICANT: Deenoyers, Luc

APPLICANT: Baton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Pong, Sherman

APPLICANT: Gerber, Hanspeter

APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secured and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730PIC3
CURRENT APPLICATION NUMBER: US/09/991,181
CURRENT FILING DATE: 2001-11-16
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
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;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 1360; DB 9; Length 251;
Best Local Similarity 100.0%; Pred. No. 2, 1e-123;
Matches 251; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGAGLRIMVCAICVCSMSVLRAPNAPSILGSSWGLIHLTYRTAANSYHLOIHKNGH 60
DB 1 MGAGLRIMVCAICVCSMSVLRAPNAPSILGSSWGLIHLTYRTAANSYHLOIHKNGH 60
QY 61 VDGAPHOTIYALMIRSDAGFVVITGVMSRRYLICMDFRGNI FGSHYDPENCRFQHOTL 120
DB 61 VDGAPHOTIYALMIRSDAGFVVITGVMSRRYLICMDFRGNI FGSHYDPENCRFQHOTL 120
QY 121 ENGVDVHSPQYHFLVLSGAKRAFLPGMNPYPYSQFLSRNNEIPLIHFNTPIPRRHRS 180
DB 121 ENGVDVHSPQYHFLVLSGAKRAFLPGMNPYPYSQFLSRNNEIPLIHFNTPIPRRHRS 180
QY 161 AEDDERPPLVTKPRAMTAPASCQELPSAEDNSFMAADPLGAVTGGRVNTHAGGTG 240
DB 161 AEDDERPPLVTKPRAMTAPASCQELPSAEDNSFMAADPLGAVTGGRVNTHAGGTG 240
QY 241 PEGCRPAKFI 251
DB 241 PEGCRPAKFI 251

RESULT 9
US-09-993-687-511
; Sequence 511, Application US/09993687
; Publication No. US20020198149A1

GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerltsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tamas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C11
CURRENT APPLICATION NUMBER: US/09/993,687
CURRENT FILING DATE: 2002-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
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PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 1360; DB 9; Length 251;
Best Local Similarity 100.0%; Pred. No. 2,1e-123;
Matches 251; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGARLRWVCLGVCNSVTRAPNAPPLGSSWGLIHYTATARNHYLQHKNGH 60
DB 1 MGARLRWVCLGVCNSVTRAPNAPPLGSSWGLIHYTATARNHYLQHKNGH 60

QY 61 VDGARHQTYSALMTRSEBAGFVITGVMSRRYLQMDPFGNIFGSHYPPENCROHOTL 120
DB 61 VDGARHQTYSALMTRSEBAGFVITGVMSRRYLQMDPFGNIFGSHYPPENCROHOTL 120

QY 121 ENGVDVYSPQYHPLVSLGRARAFPLPGNPPYSSQFLSRREIPLIHNTPIPRRHTS 180
DB 121 ENGVDVYSPQYHPLVSLGRARAFPLPGNPPYSSQFLSRREIPLIHNTPIPRRHTS 180

QY 181 AEDDERPPLNLTKPRARMTTPASCSQELPSAEDNSPMAADPLGAVRGGRVNTAGGTG 240
DB 181 AEDDERPPLNLTKPRARMTTPASCSQELPSAEDNSPMAADPLGAVRGGRVNTAGGTG 240

QY 241 PEGCRPPAKFI 251
DB 241 PEGCRPPAKFI 251

RESULT 10
US-09-989-734-511
Sequence 511, Application US/09989734
Publication No. US2003003531A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrata, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas P.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C64
CURRENT FILING DATE: 2001-11-19
PRIOR APPLICATION NUMBER: US/09/989,734
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
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PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
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PRIOR FILING DATE: 1998-06-04
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PRIOR FILING DATE: 1998-06-11
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PRIOR FILING DATE: 1998-06-17
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PRIOR FILING DATE: 1998-06-17
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PRIOR FILING DATE: 1998-06-17
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PRIOR FILING DATE: 1998-06-18
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PRIOR APPLICATION NUMBER: 60/090246
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PRIOR FILING DATE: 1998-06-22
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PRIOR APPLICATION NUMBER: 60/090695
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PRIOR APPLICATION NUMBER: 60/091360
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PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 1360; DB 9; Length 251;
Best Local Similarity 100.0%; Pred. No. 2.1e-123;
Matches 251; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGAARLRLVWALCSVCSMSVLRAYPNASPLIGSSWGLIHLTYTARNSTYHLQHKNGH 60
DB 1 MGAARLRLVWALCSVCSMSVLRAYPNASPLIGSSWGLIHLTYTARNSTYHLQHKNGH 60
QY 61 VDGAPHTTYSALMTRSSDAGFVVITGMSRRYLCDMDFRGNI FGSHPYDPENCROHOTL 120
DB 61 VDGAPHTTYSALMTRSSDAGFVVITGMSRRYLCDMDFRGNI FGSHPYDPENCROHOTL 120

QY 121 ENGYNVHSPQYHFLVSLGRAKAFIPGNNPPYQFLSRNNEIPLIHNTPIPRHRTS 180
Db 121 ENGYNVHSPQYHFLVSLGRAKAFIPGNNPPYQFLSRNNEIPLIHNTPIPRHRTS 180
QY 181 AEDSERDPLNLTKPRARMTFPAASCSOELPSAEDNSPMAADPLGVNRCGRVNTTHAGTG 240
Db 181 AEDSERDPLNLTKPRARMTFPAASCSOELPSAEDNSPMAADPLGVNRCGRVNTTHAGTG 240
QY 241 PEGCRPFAKFI 251
Db 241 PEGCRPFAKFI 251

RESULT 11
US-10-028-072-266
Sequence 266, Application US/10028072
Publication No. US20030004311A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: Deforge, Laura
APPLICANT: Deenoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Macanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang
TITLE OF INVENTION:
FILE REFERENCE:
CURRENT APPLICATION NUMBER: US/10/028,072
CURRENT FILING DATE: 2001-12-19
PRIOR APPLICATION NUMBER: 60/049911
PRIOR FILING DATE: 1997-06-18
PRIOR APPLICATION NUMBER: 60/056974
PRIOR FILING DATE: 1997-08-26
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PRIOR FILING DATE: 1997-09-17
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PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/062816
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PRIOR FILING DATE: 1997-10-24
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PRIOR FILING DATE: 1997-10-24
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PRIOR FILING DATE: 1997-10-29
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PRIOR FILING DATE: 1997-10-17
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PRIOR FILING DATE: 1997-11-24
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PRIOR FILING DATE: 1998-02-04
PRIOR APPLICATION NUMBER: 60/074086
PRIOR FILING DATE: 1998-02-09
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PRIOR APPLICATION NUMBER: 60/077791
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PRIOR FILING DATE: 1998-02-27
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PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081229
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PRIOR APPLICATION NUMBER: 60/081695
PRIOR FILING DATE: 1998-04-14

PRIOR APPLICATION NUMBER: 60/081817
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081818
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PRIOR APPLICATION NUMBER: 60/082999
PRIOR FILING DATE: 1998-04-24
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PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
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PRIOR FILING DATE: 1998-05-15
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PRIOR FILING DATE: 1998-05-22
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PRIOR FILING DATE: 1998-05-22
PRIOR APPLICATION NUMBER: 60/087106
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PRIOR APPLICATION NUMBER: 60/091360
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07

Query Match 100.0%; Score 1360; DB 9; Length 251;
Best Local Similarity 100.0%; Pred. No. 2,1e-123;

Matches 251; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MGARLRMLVCAICGVCSMSVIRAYPNASPLIGSSWGGLIHLYTATARNSTYLQIHKNCH 60
Db 1 MGARLRMLVCAICGVCSMSVIRAYPNASPLIGSSWGGLIHLYTATARNSTYLQIHKNCH 60

Qy 61 VDGAPHQITTSALMTRSDAGFVITGVMSRRYLQMDRGNIFGSHYPPDPCRCRQHQTL 120
Db 61 VDGAPHQITTSALMTRSDAGFVITGVMSRRYLQMDRGNIFGSHYPPDPCRCRQHQTL 120

Qy 121 ENGVDVNSPOYHFLVSGRAKRAFLPGMNPPEYSQFLSRREIPLIHNTPIPRHTRS 180
Db 121 ENGVDVNSPOYHFLVSGRAKRAFLPGMNPPEYSQFLSRREIPLIHNTPIPRHTRS 180

Qy 181 AEDSERDPLNVLKPRAMTPAPASCQELPSAEDNSPMASDPLGVGRVNTAGGTG 240
Db 181 AEDSERDPLNVLKPRAMTPAPASCQELPSAEDNSPMASDPLGVGRVNTAGGTG 240

Qy 241 PEGCRPFPAKFI 251
Db 241 PEGCRPFPAKFI 251

RESULT 12
US-09-997-653-511
Sequence 511, Application US/09997653
Publication No. US20030008297A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gertlisen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Guiney, Austin L.
APPLICANT: Kijavini, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Paoni, Nicholas P.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730PIC38
CURRENT APPLICATION NUMBER: US/09/997,653
CURRENT FILING DATE: 2001-11-15
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
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PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
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PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28

[illegible]

PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 1360; DB 9; Length 251;
Best Local Similarity 100.0%; Pred. No. 2,1e-123;
Matches 251; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGARLRMLVWCLGVCVSNVLRAYFNASPLIGSSWGGIHHYTTATARNYHLQHKNGH 60
DB 1 MGARLRMLVWCLGVCVSNVLRAYFNASPLIGSSWGGIHHYTTATARNYHLQHKNGH 60
QY 61 VDGARHQTITSLMTRSEBAGVVTITGVNSRRYLCDPFRGNI FGSHTYDPENCRFQHTL 120
DB 61 VDGARHQTITSLMTRSEBAGVVTITGVNSRRYLCDPFRGNI FGSHTYDPENCRFQHTL 120
QY 121 ENGVDVHSPQYHFLVSLGRARAFIPGNNPPYISQFLSRNHEIPLIHNTPIPRRHTRS 180
DB 121 ENGVDVHSPQYHFLVSLGRARAFIPGNNPPYISQFLSRNHEIPLIHNTPIPRRHTRS 180
QY 181 AEDSERDPLNVLKPRANTPAPASCOSLPASADNSPMAVDPLGVNRCGRVNTAGCTG 240
DB 181 AEDSERDPLNVLKPRANTPAPASCOSLPASADNSPMAVDPLGVNRCGRVNTAGCTG 240
QY 241 PEGCRPFAPFI 251
DB 241 PEGCRPFAPFI 251

RESULT 13

US-09-993-667-511

Sequence 511, Application US/09993667
Publication No. US20030022187A1
GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Deenoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gunney, Austin L.
APPLICANT: Kijavini, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C4
CURRENT APPLICATION NUMBER: US/09/993,667
PRIOR FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311

PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
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PRIOR FILING DATE: 1998-06-05
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PRIOR FILING DATE: 1998-06-10
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PRIOR FILING DATE: 1998-06-12
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PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089512
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089514
PRIOR FILING DATE: 1998-06-16

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PRIOR APPLICATION NUMBER: 60/089532
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PRIOR FILING DATE: 1998-06-17
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PRIOR FILING DATE: 1998-06-18
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PRIOR FILING DATE: 1998-06-18
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PRIOR FILING DATE: 1998-06-19
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PRIOR FILING DATE: 1998-06-23
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PRIOR FILING DATE: 1998-06-23
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PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091360
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091478

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PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

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Query Match 100.0%; Score 1360; DB 9; Length 251;
 Best Local Similarity 100.0%; Pred. No. 2, Le-123;
 Matches 251; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 MGARLRIMVCLCSGCSMSVLRAPNAPSLGSSWGLIHLXTTANSYHLQHKXGH 60
Qy 61 VDGAPHOTIVSALMIRSBDAGFVITGVMSRRYLQMDPRGNIFGSHYDPENCRFQHOTL 120
Db 61 VDGAPHOTIVSALMIRSBDAGFVITGVMSRRYLQMDPRGNIFGSHYDPENCRFQHOTL 120
Qy 121 ENGVDVHSPQYHPLVSLGAKRAFLPGMNPYPYQFLSRNRIPLIHNPPIPRRHTRS 180
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Qy 161 AEDSERDPLNVLKPRAMTPAPASCQELPSAENSPMASDPLGVGGRVNTAGGTG 240
Db 161 AEDSERDPLNVLKPRAMTPAPASCQELPSAENSPMASDPLGVGGRVNTAGGTG 240
Qy 241 PEGCRPFAKFI 251
Db 241 PEGCRPFAKFI 251

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RESULT 14
US-10-121-049-266
Sequence 266, Application US/10121049
Publication No. US20030022239A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Deforge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tunes, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3330R1C17
CURRENT APPLICATION NUMBER: US/10/121,049
CURRENT FILING DATE: 2002-04-12
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 266
LENGTH: 251
TYPE: PRT

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ORGANISM: Homo Sapien
US-10-121-049-266

Query Match 100.0%; Score 1360; DB 9; Length 251;
Best Local Similarity 100.0%; Pred. No. 2.1e-123;
Matches 251; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MGARLRWVCAICSVCSVSLRAYPNASPLIGSSWGGILHLYTATARNSTYHLQIKRNGH 60
QY 61 VDGAHQITISALMIRSEDAAGFVITGVMSRRYLICMDFRGNIFGSHYFPDENCRFQHOTL 120
DB 61 VDGAHQITISALMIRSEDAAGFVITGVMSRRYLICMDFRGNIFGSHYFPDENCRFQHOTL 120
QY 121 ENGVDVYHSPQYHFLVSLGRARAFLLPGNNPPYSQFLSRNDEIPLIHNTPIPRRHTS 180
DB 121 ENGVDVYHSPQYHFLVSLGRARAFLLPGNNPPYSQFLSRNDEIPLIHNTPIPRRHTS 180
QY 181 AEDDSERDPLNTLKPRARMTTPAPASCSELPSAEDNSPMAADPLGVVRCGRVNTHAGTGTG 240
DB 181 AEDDSERDPLNTLKPRARMTTPAPASCSELPSAEDNSPMAADPLGVVRCGRVNTHAGTGTG 240
QY 241 PEGCRPPAKFI 251
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RESULT 15

US-10-123-904-266
Sequence 266, Application US/10123904
Publication No. US20030022328A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: Deforge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P3330R1C54
CURRENT APPLICATION NUMBER: US/10/123,904
CURRENT FILING DATE: 2002-04-16
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 266
LENGTH: 251
TYPE: PRT
ORGANISM: Homo Sapien
US-10-123-904-266

Query Match 100.0%; Score 1360; DB 9; Length 251;
Best Local Similarity 100.0%; Pred. No. 2.1e-123;
Matches 251; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGARLRWVCAICSVCSVSLRAYPNASPLIGSSWGGILHLYTATARNSTYHLQIKRNGH 60
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QY 121 ENGVDVYHSPQYHFLVSLGRARAFLLPGNNPPYSQFLSRNDEIPLIHNTPIPRRHTS 180
DB 121 ENGVDVYHSPQYHFLVSLGRARAFLLPGNNPPYSQFLSRNDEIPLIHNTPIPRRHTS 180
QY 181 AEDDSERDPLNTLKPRARMTTPAPASCSELPSAEDNSPMAADPLGVVRCGRVNTHAGTGTG 240
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QY 241 PEGCRPPAKFI 251
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GenCore version 5.1.4 p5 4578
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OM protein - protein search, using sw model

Run on: May 23, 2003, 07:41:52 ; Search time 29 seconds

(Without alignments)
254.660 Million cell updates/sec

Title: US-09-901-938-2

Perfect score: 1360

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Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	182.5	13.4	245	2	US-08-867-471-11
3	182.5	13.4	245	2	US-08-438-439C-7
4	182.5	13.4	240	4	US-09-417-721-7
5	180.5	13.3	239	1	US-08-464-590A-11
6	180.5	13.3	239	1	US-08-462-169B-11
7	180.5	13.3	239	2	US-08-207-412B-14
8	180.5	13.3	239	2	US-08-951-822-35
9	180.5	13.3	239	3	US-09-103-079-11
10	180.5	13.3	239	3	US-08-718-904-12
11	180.5	13.3	239	3	US-09-023-082A-21
12	180.5	13.3	239	3	US-09-093-585-11
13	180.5	13.3	239	4	US-09-368-951-35
14	180.5	13.3	245	2	US-08-438-439C-17
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16	176	12.9	183	4	US-08-776-207-15
17	176	12.9	183	4	US-09-507-773-15
18	176	12.9	183	5	PCT-US95-09172-15
19	175.5	12.9	245	3	US-08-705-245-12
20	174.5	12.8	266	4	US-09-417-721-9
21	171	12.6	241	6	5175383-7
22	169	12.4	266	4	US-09-417-721-15
23	169	12.4	267	4	US-08-462-169B-13
24	169	12.4	267	3	US-09-103-079-13
25	168.5	12.4	247	4	US-09-240-952-5
26	168.5	12.4	248	4	US-09-240-952-3
27	168.5	12.4	268	1	US-08-439-725A-12

28	168.5	12.4	268	1	US-08-464-590A-17	Sequence 17, Appl
29	168.5	12.4	268	2	US-08-207-412B-12	Sequence 12, Appl
30	168.5	12.4	268	2	US-08-867-471-12	Sequence 8, Appl
31	168.5	12.4	268	2	US-08-438-439C-8	Sequence 33, Appl
32	168.5	12.4	268	2	US-08-951-822-33	Sequence 14, Appl
33	168.5	12.4	268	3	US-08-718-904-14	Sequence 15, Appl
34	168.5	12.4	268	3	US-09-023-082A-15	Sequence 17, Appl
35	168.5	12.4	268	3	US-09-093-585-17	Sequence 14, Appl
36	168.5	12.4	268	4	US-09-240-952-2	Sequence 33, Appl
37	168.5	12.4	268	4	US-09-368-951-33	Sequence 18, Appl
38	167.5	11.9	268	3	US-08-705-245-13	Sequence 14, Appl
39	162	11.3	269	2	US-08-438-439C-18	Sequence 18, Appl
40	156	11.5	266	6	5175383-5	Sequence 18, Appl
41	154	11.3	158	4	US-08-776-207-18	Sequence 18, Appl
42	154	11.3	158	4	US-09-507-773-18	Sequence 18, Appl
43	153.5	11.3	219	3	US-08-441-629-13	Sequence 13, Appl
44	153.5	11.3	219	3	US-08-776-207-13	Sequence 13, Appl
45	153.5	11.3	219	4	US-09-507-773-13	Sequence 13, Appl

ALIGNMENTS

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RESULT 1
US-08-439-725A-11
; Sequence 11, Application US/08439725A
; Patent No. 5693775
; GENERAL INFORMATION:
; APPLICANT: Nathane, Jeremy
; APPLICANT: Smallwood, Philip M.
; APPLICANT: Macke, Jennifer P.
; TITLE OF INVENTION: FIBROBLAST GROWTH FACTOR HOMOLOGOUS
; TITLE OF INVENTION: FACTOR-1 (PHF-1) AND METHODS OF USE
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/439,725A
; FILING DATE: 12-MAY-1995
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Hallie, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 07265/047001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 617/678-5099
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 245 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: linear
; MOLECULAR TYPE: protein
; US-08-439-725A-11

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Best Local Similarity 29.4%; Pred. No. 6.7e-12;
Matches 63; Conservative 26; Mismatches 88; Indels 37; Gaps 8;

QY 42 LVTATARNSTYHLOIHKNHGVDGAPHOTIYSALMIRSDAGFVITGVMSRRYICMPFRGN 101
DB 48 LVCAI---KTHQLOHSGKVNGLNSAIVSILEITAVEGVVAIKGLFSGRIYLAANKRGR 104

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QY 153 -PYSQFLSRNEIPLIHFTPIPR-----RHTRSAEDSERDPLNVLKPRAMTPAPA 204
Db 162 RPRRGFKTRTQKSSLF-----LPRVLGHKHDMWVRLLOSQPRAPBEGSQPROR----- 211
QY 205 SCQGLPSAEDNSPMASDPLGVGRGVNTHAG 238
Db 212 --ROKKOSPGDHGM--ETLSTRATPSTQHTGG 241

RESULT 2
US-08-867-471-11
; Sequence 11, Application US/08867471
; Patent No. 5872226
; GENERAL INFORMATION:
; APPLICANT: Nathans, Jeremy
; APPLICANT: Smallwood, Phillip M.
; APPLICANT: Macke, Jennifer P.
; TITLE OF INVENTION: FIBROBLAST GROWTH FACTOR HOMOLOGOUS
; TITLE OF INVENTION: FACTOR-1 (THF-1) AND METHODS OF USE
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/867,471
; FILING DATE: 02-JUN-1997
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/439,725
; FILING DATE: 12-MAY-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Halle, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 07265/047001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 617/678-5099
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 245 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-867-471-11

Query Match 13.4%; Score 182.5; DB 2; Length 245;
Best Local Similarity 29.4%; Pred. No. 6,7e-12;
Matches 63; Conservative 26; Mismatches 88; Indels 37; Gaps 8;
QY 42 LYTATANSTHLOIHKKGVDAAPHOTIYSALMIRSEDAFVVITGVMSRRYLCMDFRGN 101
Db 48 LYCAT--KTHLOHPSGRVNGSLNSAYSILBITAVEGVVAIKGLFSGRYLAMNKRGR 104
QY 102 IFSGHYFDPENCROHQTLENGVDYVHSPOYHFLVSLGRKRAFLPGMNP----- 152
Db 105 LVASDHVNAE-CEFEVERIHELGYNTYASRLYRTGSSGPGAQRO--PGAORPMYVSVNGKG 161
QY 153 -PYSQFLSRNEIPLIHFTPIPR-----RHTRSAEDSERDPLNVLKPRAMTPAPA 204
Db 162 RPRRGFKTRTQKSSLF-----LPRVLGHKHDMWVRLLOSQPRAPBEGSQPROR----- 211
QY 205 SCQGLPSAEDNSPMASDPLGVGRGVNTHAG 238
Db 212 --ROKKOSPGDHGM--ETLSTRATPSTQHTGG 241

RESULT 4

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Db 162 RPRRGFKTRTQKSSLF-----LPRVLGHKHDMWVRLLOSQPRAPBEGSQPROR----- 211
QY 205 SCQGLPSAEDNSPMASDPLGVGRGVNTHAG 238
Db 212 --ROKKOSPGDHGM--ETLSTRATPSTQHTGG 241

RESULT 3
US-08-438-439C-7
; Sequence 7, Application US/08438439C
; Patent No. 5876967
; GENERAL INFORMATION:
; APPLICANT: Nathans, Jeremy
; APPLICANT: Smallwood, Phillip M.
; APPLICANT: Macke, Jennifer P.
; TITLE OF INVENTION: FIBROBLAST GROWTH FACTOR HOMOLOGOUS
; TITLE OF INVENTION: FACTOR-2 AND METHODS OF USE
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/438,439C
; FILING DATE: May 12, 1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Halle, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 07265/046001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 245 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-438-439C-7

Query Match 13.4%; Score 182.5; DB 2; Length 245;
Best Local Similarity 29.4%; Pred. No. 6,7e-12;
Matches 63; Conservative 26; Mismatches 88; Indels 37; Gaps 8;
QY 42 LYTATANSTHLOIHKKGVDAAPHOTIYSALMIRSEDAFVVITGVMSRRYLCMDFRGN 101
Db 48 LYCAT--KTHLOHPSGRVNGSLNSAYSILBITAVEGVVAIKGLFSGRYLAMNKRGR 104
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Db 105 LVASDHVNAE-CEFEVERIHELGYNTYASRLYRTGSSGPGAQRO--PGAORPMYVSVNGKG 161
QY 153 -PYSQFLSRNEIPLIHFTPIPR-----RHTRSAEDSERDPLNVLKPRAMTPAPA 204
Db 162 RPRRGFKTRTQKSSLF-----LPRVLGHKHDMWVRLLOSQPRAPBEGSQPROR----- 211
QY 205 SCQGLPSAEDNSPMASDPLGVGRGVNTHAG 238
Db 212 --ROKKOSPGDHGM--ETLSTRATPSTQHTGG 241

RESULT 4

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US-09-417-721-7
Sequence 7, Application US/09417721
Patent No. 6451303
GENERAL INFORMATION:
APPLICANT: Whitehouse, Martha J.
APPLICANT: Kavanaugh, Michael W.
TITLE OF INVENTION: Angiotensin II Receptor Antagonists
TITLE OF INVENTION: Administering
FILE REFERENCE: 1296/12169US05
CURRENT APPLICATION NUMBER: US/09/417,721
CURRENT FILING DATE: 1999-10-13
PRIOR APPLICATION NUMBER: 60/104,103
PRIOR FILING DATE: 1998-10-13
NUMBER OF SEQ ID NOS: 15
SOFTWARE: Patent Ver. 2.0
SEQ ID NO: 7
LENGTH: 240
TYPE: PR
ORGANISM: Murine FGF-3
US-09-417-721-7
Query Match 13.4%; Score 182; DB 4; Length 240;
Best Local Similarity 28.7%; Pred. No. 7.4e-12;
Matches 56; Conservative 26; Mismatches 69; Indels 42; Gaps 7;
QY 42 LYRTAANSYHLQHKNGHVDGAPHOTYTSALMIRSEDAGFVITGVMSRRLCMDFRGN 101
DB 48 LYCAT--KHLQHPGSRVNGSLNSAYSLITAVGVVAIKGLFSGRYLANNKGR 104
QY 102 IFGSHYFDPENCRCFOHQTLENGYDVHSPQYHFLVSLGRARAPFGMNP--P 152
DB 105 LYASDHYNAB-CEFEVERIHELGYNTVTSRLRTGSSGGAQRQ--PGAQRVWYVSVNGKG 161
QY 153 -PYSQFLSRNE-----IPLIHNTPT-----IPRHRSAEDDSER 187
DB 162 RPRRGFTTRTKQKSLPLPRVLGHKDHVMVLLSSOPRABEGSQPROROKQSPGDH 221
QY 188 DPLNVLKPRARMTPA 202
DB 222 GKMETLSTRA--TPS 234
RESULT 5
US-08-464-590A-11
Sequence 11, Application US/08464590A
Patent No. 5763214
GENERAL INFORMATION:
APPLICANT: HU, JING-SHAN
APPLICANT: ROSEN, CRAIG A.
TITLE OF INVENTION: FIBROBLAST GROWTH FACTOR-11
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN, CECCHI,
ADDRESS: STEWART & OLSTEIN
STREET: 6 BECKER FARM ROAD
CITY: ROSELAND
STATE: NJ
COUNTRY: US
ZIP: 07068
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/464,590A
FILING DATE: 05-JUN-1995
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: MULLINS, J. G.
REGISTRATION NUMBER: 30,073
REFERENCE/DOCKET NUMBER: 325800-438
TELECOMMUNICATION INFORMATION:

TELEPHONE: (201) 994-1700
TELEFAX: (201) 994-1744
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 239 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-464-590A-11
Query Match 13.3%; Score 180.5; DB 1; Length 239;
Best Local Similarity 31.0%; Pred. No. 1.1e-11;
Matches 52; Conservative 26; Mismatches 75; Indels 15; Gaps 5;
QY 42 LYRTAANSYHLQHKNGHVDGAPHOTYTSALMIRSEDAGFVITGVMSRRLCMDFRGN 101
DB 48 LYCAT--KHLQHPGSRVNGSLNSAYSLITAVGVVAIKGLFSGRYLANNKGR 104
QY 102 IFGSHYFDPENCRCFOHQTLENGYDVHSPQYHFLVSL-----GRARAPFGMNP--P 153
DB 105 LYASEHYSAB-CEFEVERIHELGYNTVTSRLRTVSTPGARQPSAERLWTVSVNGKGR 163
QY 154 YSGLSRNEIPLIHNTPPIPRH--TRSAEDDSERDPLNVLKPRAR 198
DB 164 RRGFTTRTKQKSLPLPRVLGRDHVMVRLSSGLPRPQKGVQPRRR 211
RESULT 6
US-08-462-169B-11
Sequence 11, Application US/08462169B
Patent No. 5773252
GENERAL INFORMATION:
APPLICANT: John Greene and Craig A. Rosen
TITLE OF INVENTION: Fibroblast Growth Factor-15
NUMBER OF SEQUENCES: 32
CORRESPONDENCE ADDRESS:
ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,
ADDRESS: CECCHI, STEWART & OLSTEIN
STREET: 6 BECKER FARM ROAD
CITY: ROSELAND
STATE: NEW JERSEY
COUNTRY: USA
ZIP: 07068
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 INCH DISKETTE
COMPUTER: IBM PS/2
OPERATING SYSTEM: MS-DOS
SOFTWARE: WORD PERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/462,169B
FILING DATE: 05 JUN 95
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: MULLINS, J. G.
REGISTRATION NUMBER: 33,073
REFERENCE/DOCKET NUMBER: 325800-441 (PR203)
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 239 AMINO ACIDS
TYPE: AMINO ACID
STRANDEDNESS:
TOPOLOGY: LINEAR
MOLECULE TYPE: PROTEIN
US-08-462-169B-11
Query Match 13.3%; Score 180.5; DB 1; Length 239;
Best Local Similarity 31.0%; Pred. No. 1.1e-11;
Matches 52; Conservative 26; Mismatches 75; Indels 15; Gaps 5;

QY 42 LYTATARNSTYHLOIHKNGHVDGAPHQTIYSALMIRSEDAGFVITGVMSRRYLCDMDFRGN 101
DB 48 LYCAT---KTHLDHPGSRVNGSLNSAYISLBITAVEGIVAIRGLFSGRYLAMNKRGR 104
QY 102 IFGSHYFDPENCRCFOHQTLENGYDVYHSPQYHFLVSL-----GRAKRAFPGMNP--P 153
DB 105 LYASEHYSAB-CEVERIHGIVNTYASRLYRTVSSTPGARQPSAERLWYVSVNGKGRP 163
QY 154 YSOFLSRNRNIEPLIHFTPIPRRH---TRSAEDDSEDPDLNVLKPRAR 198
DB 164 RRGKTRRTQKSSLFPLRVLDHRDHENVRQLOSGLPFRPGKGVOPRRR 211

RESULT 7
US-08-207-412B-14
Sequence 14, Application US/08207412B
Patent No. 5817485
GENERAL INFORMATION:
APPLICANT: Hu, Jing-Shan
TITLE OF INVENTION: Fibroblast Growth Factor-10
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,
STREET: 6 Becker Farm Road
CITY: Roseland
STATE: NJ
COUNTRY: USA
ZIP: 07068-1739
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/207,412B
FILING DATE: 08-MAR-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Ferraro, Gregory D
REGISTRATION NUMBER: 36,134
REFERENCE/DOCKET NUMBER: 325800-100
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 239 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-207-412B-14

Query Match 13.3%; Score 180.5; DB 2; Length 239;
Best Local Similarity 31.0%; Pred. No. 1.1e-11;
Matches 52; Conservative 26; Mismatches 75; Indels 15; Gaps 5;

Sequence 35, Application US/08951822A
Patent No. 5989866
GENERAL INFORMATION:
APPLICANT: Delscher, Theresa A.
APPLICANT: Conklin, Darrell C.
APPLICANT: Raymond, Fenella
APPLICANT: Bukowski, Thomas R.
APPLICANT: Holdertman, Susan D.
APPLICANT: Hansen, Birgit
TITLE OF INVENTION: NOVEL FGF HOMOLOGS
FILE REFERENCE: 96-20
CURRENT APPLICATION NUMBER: US/08/951,822A
CURRENT FILING DATE: 1997-10-16
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 35
LENGTH: 239
TYPE: PRT
ORGANISM: Homo sapiens
US-08-951-822-35

Query Match 13.3%; Score 180.5; DB 2; Length 239;
Best Local Similarity 31.0%; Pred. No. 1.1e-11;
Matches 52; Conservative 26; Mismatches 75; Indels 15; Gaps 5;

QY 42 LYTATARNSTYHLOIHKNGHVDGAPHQTIYSALMIRSEDAGFVITGVMSRRYLCDMDFRGN 101
DB 48 LYCAT---KTHLDHPGSRVNGSLNSAYISLBITAVEGIVAIRGLFSGRYLAMNKRGR 104
QY 102 IFGSHYFDPENCRCFOHQTLENGYDVYHSPQYHFLVSL-----GRAKRAFPGMNP--P 153
DB 105 LYASEHYSAB-CEVERIHGIVNTYASRLYRTVSSTPGARQPSAERLWYVSVNGKGRP 163
QY 154 YSOFLSRNRNIEPLIHFTPIPRRH---TRSAEDDSEDPDLNVLKPRAR 198
DB 164 RRGKTRRTQKSSLFPLRVLDHRDHENVRQLOSGLPFRPGKGVOPRRR 211

RESULT 9
US-09-103-079-11
Sequence 11, Application US/09103079A
Patent No. 6013477
GENERAL INFORMATION:
APPLICANT: Greene, John M.
APPLICANT: Rosen, Craig A.
TITLE OF INVENTION: Fibroblast Growth Factor 15
FILE REFERENCE: PF203D1
CURRENT APPLICATION NUMBER: US/09/103,079A
CURRENT FILING DATE: 1998-06-23
EARLIER APPLICATION NUMBER: 08/462,169
EARLIER FILING DATE: 1995-06-05
NUMBER OF SEQ ID NOS: 32
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 11
LENGTH: 239
TYPE: PRT
ORGANISM: Homo sapiens
US-09-103-079-11

Query Match 13.3%; Score 180.5; DB 3; Length 239;
Best Local Similarity 31.0%; Pred. No. 1.1e-11;
Matches 52; Conservative 26; Mismatches 75; Indels 15; Gaps 5;

Db 164 RRGFKTRRTQKSSLFPLPRVLDRHDEHWRQLOSGLPFRPGKGVQPRRR 211

RESULT 10

US-08-718-904-12

Sequence 12, Application US/08718904

Patent No. 6037329

GENERAL INFORMATION:

APPLICANT: Baird, J. Andrew

APPLICANT: Chandler, Lois Ann

APPLICANT: Sosnowski, Barbara A.

TITLE OF INVENTION: COMPOSITIONS CONTAINING NUCLEIC ACIDS AND LIGANDS FOR THERAPE

NUMBER OF SEQUENCES: 128

CORRESPONDENCE ADDRESS:

ADDRESSEE: SEED AND BERRY LLP

STREET: 6300 Columbia Center, 701 Fifth Avenue

CITY: Seattle

STATE: Washington

COUNTRY: USA

ZIP: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/718,904

FILING DATE: 24-SEP-1996

CLASSIFICATION: 424

ATTORNEY/AGENT INFORMATION:

NAME: NO. 6037329tendburg Ph.D., Carol

REGISTRATION NUMBER: 39,317

REFERENCE/DOCKET NUMBER: 760100.415C1

TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 622-4900

TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 12:

SEQUENCE CHARACTERISTICS:

LENGTH: 239 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: unknown

MOLECULE TYPE: peptide

FEATURE:

OTHER INFORMATION: /note="FGF-3"

US-08-718-904-12

Query Match

Best Local Similarity 13.3%; Score 180.5; DB 3; Length 239;

Matches 52; Conservative 26; Mismatches 75; Indels 15; Gaps 5;

Db 42 LYATARNSTHLOIHKNGHVDGAFHOTIYSALMIRSDAGFVITGVMSRRYLCMDFRGN 101

48 LYCAT--KTHLOHPSGRVNGSIENSAYSILLETVAEIVAIRGFSGRYLLMNRGR 104

QY 102 IFGSHYFDPENCRFQHOTLENGVDVYHSPQYHFLVSL-----GRAKRAFLPGMNP--P 153

Db 105 LVASHEHYSAB-CERVEVIEHLEIGVITVASRLYRTVSTTPGARQPSAEMLVSYVNGKGR 163

QY 154 YSOFLSRNEIPLIHFTPIPRR--TRSAEDSERDPLNVLKPRAR 198

Db 164 RRGFKTRRTQKSSLFPLPRVLDRHDEHWRQLOSGLPFRPGKGVQPRRR 211

RESULT 11

US-09-023-082A-21

Sequence 21, Application US/09023082A

Patent No. 6077692

GENERAL INFORMATION:

APPLICANT: RUBEN, STEVEN M.

APPLICANT: JIMENEZ, PABLO

APPLICANT: DUAN, D. ROXANNE

APPLICANT: RAMPY, MARK A.

APPLICANT: ZHANG, JUAN

APPLICANT: NI, JIAN

APPLICANT: MOORE, PAUL A.

APPLICANT: COLEMAN, TIMOTHY A.

APPLICANT: GRUBER, JOACHIM R.

APPLICANT: DILLON, PATRICK J.

APPLICANT: GENTZ, REINER L.

TITLE OF INVENTION: KERATINOCYTE GROWTH FACTOR-2

NUMBER OF SEQUENCES: 148

CORRESPONDENCE ADDRESS:

ADDRESSEE: STERN, KESSLER, GOLDSTEIN & FOX, P.L.L.C.

STREET: 1100 NEW YORK AVE, NW, SUITE 600

CITY: WASHINGTON

STATE: DC

COUNTRY: USA

ZIP: 20005-3934

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/023,082A

FILING DATE: 13-FEB-1998

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

PRIOR APPLICATION NUMBER: PCT/US95/01790

FILING DATE: 14-FEB-1995

PRIOR APPLICATION DATA:

PRIOR APPLICATION NUMBER: US 08/461,195

FILING DATE: 05-JUN-1995

PRIOR APPLICATION DATA:

PRIOR APPLICATION NUMBER: US 60/023,852

FILING DATE: 13-AUG-1996

PRIOR APPLICATION DATA:

PRIOR APPLICATION NUMBER: US 60/039,045

FILING DATE: 28-FEB-1997

PRIOR APPLICATION DATA:

PRIOR APPLICATION NUMBER: US 08/862,432

FILING DATE: 23-MAY-1997

PRIOR APPLICATION DATA:

PRIOR APPLICATION NUMBER: US 08/910,875

FILING DATE: 13-AUG-1997

PRIOR APPLICATION DATA:

PRIOR APPLICATION NUMBER: US 60/055,561

FILING DATE: 13-AUG-1997

ATTORNEY/AGENT INFORMATION:

NAME: STEFFE, ERIC K.

REGISTRATION NUMBER: 36,688

REFERENCE/DOCKET NUMBER: 1488.0360008/EKS

TELECOMMUNICATION INFORMATION:

TELEPHONE: 202-371-2540

TELEFAX: 202-371-2540

INFORMATION FOR SEQ ID NO: 21:

SEQUENCE CHARACTERISTICS:

LENGTH: 239 amino acids

TYPE: amino acid

STRANDEDNESS: not relevant

TOPOLOGY: not relevant

MOLECULE TYPE: protein

US-09-023-082A-21

Query Match

Best Local Similarity 13.3%; Score 180.5; DB 3; Length 239;

Matches 52; Conservative 26; Mismatches 75; Indels 15; Gaps 5;

Db 42 LYATARNSTHLOIHKNGHVDGAFHOTIYSALMIRSDAGFVITGVMSRRYLCMDFRGN 101

48 LYCAT--KTHLOHPSGRVNGSIENSAYSILLETVAEIVAIRGFSGRYLLMNRGR 104

QY 102 IFGSHYFDPENCRFQHOTLENGVDVYHSPQYHFLVSL-----GRAKRAFLPGMNP--P 153

Db 105 LYASEHSAB-CEFEVERIHEIGNTYASRLVTSSTPGARQPSAEKLMVSVNGKGRP 163
QY 154 YSOFLSRNEIPLIHFTPIPRH--TRSAEDSERDPLNVLKPRAR 198
Db 164 RRGFKTRTKQSSLPFLPRVLDRHDEHMYRQLOSGLPREPCKGVOPRRR 211

RESULT 12

US-09-093-585-11
Sequence 11, Application US/09093585
Patent No. 6110893
GENERAL INFORMATION:
APPLICANT: HU, JING-SHAN
APPLICANT: ROSEN, CRAIG A.
TITLE OF INVENTION: FIBROBLAST GROWTH FACTOR-11
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN, CECCHI,
ADDRESSEE: STEWART & OLSTEIN
STREET: 6 BECKER FARM ROAD
CITY: ROSELAND
STATE: NJ
COUNTRY: US
ZIP: 07068
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/093,585
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/464,590
FILING DATE: 05-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: MULLINS, J. G.
REGISTRATION NUMBER: 30,073
REFERENCE/DOCKET NUMBER: 325800-438
TELECOMMUNICATION INFORMATION:
TELEPHONE: (201) 994-1700
TELEFAX: (201) 994-1744
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 239 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-093-585-11

Query Match 13.3%; Score 180.5; DB 3; Length 239;

Best Local Similarity 31.0%; Pred. No. 1.1e-11;
Matches 52; Conservative 26; Mismatches 75; Indels 15; Gaps 5;

QY 42 LYTAANSYHLQHKNGHVDGAPHQTIYSALMIRSEDAGFVITGVNSRRYLCMDPRGN 101
Db 48 LYCAT--KYHLQHPGSRVNGSLNSAYSLBITAVEGVIALRGFSGVYLMNKRGR 104
QY 102 IFGSHYFDPENCROHQTLGNGYDVHSPQHFVLSL-----GRAKAFLEGNMP--P 153
Db 105 LYASEHSAB-CEFEVERIHEIGNTYASRLVTSSTPGARQPSAEKLMVSVNGKGRP 163
QY 154 YSOFLSRNEIPLIHFTPIPRH--TRSAEDSERDPLNVLKPRAR 198
Db 164 RRGFKTRTKQSSLPFLPRVLDRHDEHMYRQLOSGLPREPCKGVOPRRR 211

RESULT 13
US-09-368-951-35
Sequence 35, Application US/09368951

Patent No. 6352971
GENERAL INFORMATION:
APPLICANT: Delsher, Theresa A.
APPLICANT: Conklin, Darrell C.
APPLICANT: Raymond, Fennella C.
APPLICANT: Bukowski, Thomas R.
APPLICANT: Holderman, Susan D.
APPLICANT: Hansen, Birgit
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL FGF HOMOLOGS
FILE REFERENCE: 96-20
CURRENT APPLICATION NUMBER: US/09/368,951
CURRENT FILING DATE: 1999-08-05
EARLIER APPLICATION NUMBER: 08/951,822
EARLIER FILING DATE: 1997-10-16
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 35
LENGTH: 239
TYPE: PRT
ORGANISM: Homo sapiens
US-09-368-951-35

Query Match 13.3%; Score 180.5; DB 4; Length 239;
Best Local Similarity 31.0%; Pred. No. 1.1e-11;
Matches 52; Conservative 26; Mismatches 75; Indels 15; Gaps 5;

QY 42 LYTAANSYHLQHKNGHVDGAPHQTIYSALMIRSEDAGFVITGVNSRRYLCMDPRGN 101
Db 48 LYCAT--KYHLQHPGSRVNGSLNSAYSLBITAVEGVIALRGFSGVYLMNKRGR 104
QY 102 IFGSHYFDPENCROHQTLGNGYDVHSPQHFVLSL-----GRAKAFLEGNMP--P 153
Db 105 LYASEHSAB-CEFEVERIHEIGNTYASRLVTSSTPGARQPSAEKLMVSVNGKGRP 163
QY 154 YSOFLSRNEIPLIHFTPIPRH--TRSAEDSERDPLNVLKPRAR 198
Db 164 RRGFKTRTKQSSLPFLPRVLDRHDEHMYRQLOSGLPREPCKGVOPRRR 211

RESULT 14

US-08-438-439C-17
Sequence 17, Application US/08438439C
Patent No. 5876967
GENERAL INFORMATION:
APPLICANT: Nathans, Jeremy
APPLICANT: Smallwood, Phillip M.
APPLICANT: Macke, Jennifer P.
TITLE OF INVENTION: FIBROBLAST GROWTH FACTOR HOMOLOGOUS
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson P.C.
STREET: 4225 Executive Square, Suite 1400
CITY: La Jolla
STATE: CA
COUNTRY: USA
ZIP: 92037

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/438,439C
FILING DATE: May 12, 1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Haile, Lisa A.
REGISTRATION NUMBER: 38,347
REFERENCE/DOCKET NUMBER: 07265/046001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619/678-5070

TELEFAX: 619/678-5099
 INFORMATION FOR SEQ ID NO: 17:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 245 amino acids
 TYPE: amino acid
 STRANDEDNESS: not relevant
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-438-439C-17

Query Match

13.3%; Score 180.5; DB 2; Length 245;
 Best Local Similarity 28.0%; Pred. No. 1.1e-11;
 Matches 70; Conservative 29; Mismatches 104; Indels 47; Gaps 10;

QY 19 MSVLR-AYPNAP-----LLGSSWGLIHLTYTAR-----NSYHLQHKNGVDGAP 65
 DB 9 LSLLEPPTPTGPTGLRLRDAGRGVYEHLGAPRRKLYCATKYLQHPSGRVGSL 68
 QY 66 HQTYSALMIRSEDAGFVITGVMSRRYLCMDFRGNIFGSHYFPDPENCFOHQTLENGYD 125
 DB 69 ENSAYSLILEITAVEGVGVAIKGLFSGRYLANKKGRLYASDHVNAE-CEFERIHELGYN 127
 QY 126 VYHSPQYHFLVSLGRAKAFLEGMNP-----PYSQFLSRNEIPLIHNTPIPR 175
 DB 128 TYASRLYRTGSSGPGARQ--PGAQRPYVYVNGKGRPRRGFKTRRQKSLF---LPR 181
 QY 176 -----RHTRSADDESEPDPLNVLKPRARMTAPASGCELPFAEDNSPASPGLGYVR 228
 DB 182 VLGHKHDMVRLLOSQPRAPGEGSOPRQ-----ROKKSGPDHGKM-ETLSTRA 231
 QY 229 GGRVNTAGG 238
 DB 232 TPSTQLHTGG 241

RESULT 15

US-08-441-629-15
 Sequence 15, Application US/08441629
 Patent No. 5766923

GENERAL INFORMATION:

APPLICANT: Kirschner, Marc W.
 APPLICANT: Kinoshita, No. 57669231yuki
 TITLE OF INVENTION: RECEPTOR-LIGAND ASSAY
 NUMBER OF SEQUENCES: 17
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
 STREET: Two Militia Drive
 CITY: Lexington
 STATE: Massachusetts
 COUNTRY: USA
 ZIP: 02173
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/441,629
 FILING DATE: 15-MAY-1995
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/279,217
 FILING DATE: 22-JUL-1994
 ATTORNEY/AGENT INFORMATION:
 NAME: Granahan, Patricia
 REGISTRATION NUMBER: 32,227
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617) 861-6240
 TELEFAX: (617) 861-9540
 INFORMATION FOR SEQ ID NO: 15:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 183 amino acids

TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-441-629-15

Query Match

12.9%; Score 176; DB 1; Length 183;
 Best Local Similarity 35.6%; Pred. No. 2.2e-11;
 Matches 47; Conservative 19; Mismatches 50; Indels 16; Gaps 4;

QY 42 LYTAANSTYHLQHKNGVDGAPHOITYSALMIRSEDAGFVITGVMSRRYLCMDFRGN 101
 DB 48 LYCAT--KYHLQHPSGRVNGSLENGAYSLILEITAVEGVGVAIKGLFSGRYLANKKGR 104
 QY 102 IFGSHYDPDENCROHQTLENGYDVYHSPQYHFLVSLGRAKAFLEGMNP----- 152
 DB 105 LYASDHVNAE-CEFERIHELGYNTASRLYRTGSSGPGARQ--PGAQRPYVYVNGKG 161
 QY 153 -PYSQFLSRNE 163
 DB 162 RPRRGFKTRRTQ 173

Search completed: May 23, 2003, 07:46:21
 Job time : 31 secs

PR 04-OCT-2000; 2000US-0237963.
XX (SMIK) SMITHKLINE BEECHAM CORP.
PA (SMIK) SMITHKLINE BEECHAM PLC.
XX
XX
PI Agarwal P, Kabnick KS, Murdoch PR, Rizvi SK, Smith RF, Xiang Z;
XX WPI; 2001-536566/59.
DR N-PSDB; AAD16366.
XX
PT New secreted and membrane associated polypeptides for treating
PT Alzheimer's disease, psoriasis, cancer, enterocolitis, sleep and sexual
PT disorders, stroke, and asthma
XX
PS Claim 1; Page 91; 94pp; English.
XX
XX The present sequence is a human sbgGF-19b protein,
CC a secreted protein of the invention.
CC The invention relates to secreted and membrane associated polypeptides
CC and nucleic acid molecules encoding such polypeptides. Sequences of the
CC invention are useful for treating diseases such as Alzheimer's disease,
CC amyotrophic lateral sclerosis (ALS), Zollinger-Ellison syndrome, diseases
CC of the immune system, haematopoietic disease, inflammation, anxiety,
CC schizophrenia, feeding disorders, anorexia, depression, social, sexual
CC and rewarded behaviour, cardiovascular disease, sleep disorder, learning
CC and memory alteration and altered immune response, seizure, migraine,
CC cancer, stroke, asthma, neuropathy, aging, sexual disorders, treatment
CC of transsexuals, growth abnormalities, obesity, infections, autoimmune
CC diseases (e.g. rheumatoid arthritis), cataractogenesis, angiogenesis,
CC disorders associated with healthy maintenance of gastric mucosa and
CC repair of acute and chronic mucosal lesion, lung carcinoma, cerebral
CC ischaemia, atherosclerosis, cirrhosis, Huntington's disease, headache,
CC anorexia, multiple sclerosis, Hodgson's disease, dilated cardiomyopathy,
CC congestive heart failure, cardiac arrhythmias, hypercholesterolaemia,
CC viral and non-viral hepatitis, type I and type II diabetes mellitus,
CC glomerulonephritis, renovascular hypertension, hypoglycaemia, periodic
CC paralysis, tendinitis and malignant hyperthermia. Polypeptides of the
CC invention are used to identify membrane bound and soluble receptors.
CC They are also useful as vaccines for inducing an immunological response
CC in a mammal. Polynucleotides of the invention are used in gene therapy.
CC They are also valuable for chromosome localisation studies and tissue
CC expression studies.
XX
SQ Sequence 251 AA;
XX
XX
Query Match 100.0%; Score 1360; DB 22; Length 251;
Best Local Similarity 100.0%; Pred. No. 7.5e-131;
Matches 251; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 1 MLAGRLRLWALCSVCSMSVLRAYPNASPLLGSSWGGLHLTYATARNSYHLQIHKNKH 60
DB 1 MLAGRLRLWALCSVCSMSVLRAYPNASPLLGSSWGGLHLTYATARNSYHLQIHKNKH 60
XX
QY 61 VDGAPHOQTYSALMIRSEDAGFVITGVMSRRYLQMPFRNIPGSHYFDPENCRFOHOTL 120
DB 61 VDGAPHOQTYSALMIRSEDAGFVITGVMSRRYLQMPFRNIPGSHYFDPENCRFOHOTL 120
XX
QY 121 ENGVDVYHSPQYHFLVSLGAKRAFLPGAMPYPYSOFLSRNEIPLIHFTPTIPRRHTRS 180
DB 121 ENGVDVYHSPQYHFLVSLGAKRAFLPGAMPYPYSOFLSRNEIPLIHFTPTIPRRHTRS 180
XX
QY 181 AEDDSESDPLNLVKPRARMTAPAPASCSQELPSAEDNSPMASDPLGVVGRGVNTHAGTG 240
DB 181 AEDDSESDPLNLVKPRARMTAPAPASCSQELPSAEDNSPMASDPLGVVGRGVNTHAGTG 240
XX
QY 241 PEGCRPEAKPI 251
DB 241 PEGCRPEAKPI 251
XX
RESULT 2
AAB85810
ID AAB85810 standard; Protein; 251 AA.

XX
AC AAB85810;
XX
DT 29-OCT-2001 (first entry)
XX
DE Human fibroblast growth factor (FGF)-23.
XX
KW Fibroblast growth factor; FGF; FGF-23; osteopathic; vulnery; ADHR;
KW hepatocytic; autosomal dominant hypophosphatemic rickets; human;
XX angiogenesis; gene-therapy; liver disorder; antisense-therapy.
XX
OS Homo sapiens.
XX
XX Key Location/Qualifiers
FH Peptide 1..24
FT /note="signal peptide"
FT Protein 25..251
FT /note="specifically claimed mature protein"
XX
XX WO200161007-A2.
PD 23-AUG-2001.
XX
XX 15-FEB-2001; 2001WO-US04778.
XX
XX 15-FEB-2000; 2000US-0182442.
PR 20-APR-2000; 2000US-0198903.
PR 15-FEB-2001; 2001US-0748581.
XX
XX (AMGE-) AMGEN INC.
PI Luethy R, Yang R, Suggs S, Sarosi D;
XX WPI; 2001-514774/56.
DR N-PSDB; AAH76317.
XX
XX An isolated nucleic acid molecule encoding a fibroblast growth factor
PT 23 useful for treating autosomal dominant hypophosphatemic rickets -
XX
PS Claim 15; Fig 1A-B; 158pp; English.
XX
XX This represents a human fibroblast growth factor (FGF)-23 polypeptide.
CC The DNA insert is contained in ATCC Deposit No. PTA-1617. FGF-23 can be
CC expressed by standard recombinant methodology. The FGF-23 polypeptides,
CC polynucleotides, modulators and antibodies are useful for treating,
CC preventing, or ameliorating an FGF-23 polypeptide-related disease,
CC condition or disorder especially autosomal dominant hypophosphatemic
CC rickets (ADHR). They are also useful for diagnosing a pathological
CC condition and for stimulating angiogenesis, promoting wound healing and
CC treating disorders of the liver.
XX
SQ Sequence 251 AA;
XX
XX
Query Match 100.0%; Score 1360; DB 22; Length 251;
Best Local Similarity 100.0%; Pred. No. 7.5e-131;
Matches 251; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 1 MLAGRLRLWALCSVCSMSVLRAYPNASPLLGSSWGGLHLTYATARNSYHLQIHKNKH 60
DB 1 MLAGRLRLWALCSVCSMSVLRAYPNASPLLGSSWGGLHLTYATARNSYHLQIHKNKH 60
XX
QY 61 VDGAPHOQTYSALMIRSEDAGFVITGVMSRRYLQMPFRNIPGSHYFDPENCRFOHOTL 120
DB 61 VDGAPHOQTYSALMIRSEDAGFVITGVMSRRYLQMPFRNIPGSHYFDPENCRFOHOTL 120
XX
QY 121 ENGVDVYHSPQYHFLVSLGAKRAFLPGAMPYPYSOFLSRNEIPLIHFTPTIPRRHTRS 180
DB 121 ENGVDVYHSPQYHFLVSLGAKRAFLPGAMPYPYSOFLSRNEIPLIHFTPTIPRRHTRS 180
XX
QY 181 AEDDSESDPLNLVKPRARMTAPAPASCSQELPSAEDNSPMASDPLGVVGRGVNTHAGTG 240
DB 181 AEDDSESDPLNLVKPRARMTAPAPASCSQELPSAEDNSPMASDPLGVVGRGVNTHAGTG 240

CC The present sequence represents fibroblast growth factor 23 (FGF-23).
 CC The human FGF-23 polynucleotide and polypeptide are useful for treating
 CC a patient suffering from traumatic injury or a condition characterized
 CC by dysfunction of or injury to skin cells, a condition characterized
 CC by inadequate function of placental cells (e.g. congenital defects,
 CC fertility, or abnormal growth), a condition characterized by inadequate
 CC function of the thymus (e.g. leukemia, lymphoma, autoimmune disease,
 CC proliferative disorder of the thymus, or differentiation disorder of
 CC the thymus), or a condition characterized by central nervous system
 CC disorder (e.g. Parkinson's disease or Alzheimer's disease). The human
 CC FGF-23 polynucleotide and polypeptide are also useful in the
 CC treatment of Crohn's disease, healing of intestinal wounds, ulcers,
 CC inflammation, injuries and surgical anastomoses, motility and
 CC absorption disorders, and congenital malformations of the intestine.
 CC They are also useful for treating ischemic vascular diseases (e.g.
 CC myocardial ischemia/infarction, peripheral vascular disease, renal
 CC artery disease, stroke) and musculoskeletal disease characterized by
 CC loss of function, inadequate function or death of skeletal muscle cells,
 CC bone cells or supporting cells (e.g. skeletal myopathies, bone disease,
 CC or arthritis).
 CC
 SQ Sequence 251 AA;
 Query Match 100.0%; Score 1360; DB 22; Length 251;
 Best Local Similarity 100.0%; Pred. No. 7.5e-131;
 Matches 251; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MLAGRLRWALCSVCSMSVLRAYPNASPLGSSWGGLHLYTATARNYHLOIHNGH 60
 DB 1 MLAGRLRWALCSVCSMSVLRAYPNASPLGSSWGGLHLYTATARNYHLOIHNGH 60
 QY 61 VDGAPHOITISALMIRESDAGFVITGVMSRRLVCMDFRNI FGSHPFDPENCRFOHTL 120
 DB 61 VDGAPHOITISALMIRESDAGFVITGVMSRRLVCMDFRNI FGSHPFDPENCRFOHTL 120
 QY 121 ENGVDVYHSPOYHFLVSLGRKRAFLPGMNPYPYSQPLSRNRIPLIHFTPIRRHTRS 180
 DB 121 ENGVDVYHSPOYHFLVSLGRKRAFLPGMNPYPYSQPLSRNRIPLIHFTPIRRHTRS 180
 QY 181 AEDSDSDPLNVKRRARMPAPASCSQELPSADNSPMASDPLGVVGRGVNTHAGGTG 240
 DB 181 AEDSDSDPLNVKRRARMPAPASCSQELPSADNSPMASDPLGVVGRGVNTHAGGTG 240
 QY 241 PEGCRPPAKFI 251
 DB 241 PEGCRPPAKFI 251
 RESULT 5
 AAU12304
 ID AAU12304 standard; Protein; 251 AA.
 XX AAU12304;
 DT 24-OCT-2001. (first entry)
 XX
 DE Human PRO9828 polypeptide sequence.
 XX
 KW Human secretory and transmembrane; PRO; mammalian; cancer; lung;
 KW breast; prostate; cervical; tumour necrosis factor-alpha; TNF-alpha;
 KW cartilage; ear; proliferation; glucose; free fatty acid; skeletal muscle;
 KW adipocyte; A-peptide; factor VIIA; gene therapy.
 OS Homo sapiens.
 XX
 PN WO200140466-A2.
 XX
 PD 07-JUN-2001.
 XX
 PF 01-DEC-2000; 2000WO-US32678.
 XX
 PR 01-DEC-1999; 99WO-US28301.
 PR 01-DEC-1999; 99WO-US28634.

PR 02-DEC-1999; 99WO-US28551.
 PR 02-DEC-1999; 99WO-US28564.
 PR 02-DEC-1999; 99WO-US28565.
 PR 09-DEC-1999; 99US-0170262.
 PR 16-DEC-1999; 99WO-US30095.
 PR 20-DEC-1999; 99WO-US30911.
 PR 20-DEC-1999; 99WO-US30999.
 PR 30-DEC-1999; 99WO-US31243.
 PR 06-JAN-2000; 2000WO-US00277.
 PR 06-JAN-2000; 2000WO-US00376.
 PR 11-FEB-2000; 2000WO-US03565.
 PR 18-FEB-2000; 2000WO-US04341.
 PR 18-FEB-2000; 2000WO-US04342.
 PR 22-FEB-2000; 2000WO-US04414.
 PR 24-FEB-2000; 2000WO-US04914.
 PR 24-FEB-2000; 2000WO-US05004.
 PR 01-MAR-2000; 2000WO-US05601.
 PR 20-MAR-2000; 2000WO-US07377.
 PR 21-MAR-2000; 2000WO-US07532.
 PR 30-MAR-2000; 2000WO-US08439.
 PR 17-MAY-2000; 2000WO-US13705.
 PR 22-MAY-2000; 2000WO-US14042.
 PR 30-MAY-2000; 2000WO-US14941.
 PR 02-JUN-2000; 2000WO-US15264.
 PR 10-NOV-2000; 2000WO-US30873.
 XX
 PA (GENTH) GENENTECH INC.
 XX
 XX Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W,
 PI Geritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S,
 PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z,
 XX
 DR WPI: 2001-408281/43.
 DR N-PSDB; AAS21376.
 XX
 PT Isolated, secretory and transmembrane PRO polypeptide used to detect
 PT other PRO polypeptides, link bioactive molecules to cells expressing
 PT PRO polypeptides, and detect the presence of mammalian tumours e.g.
 PT lung, breast, prostate, cervical -
 XX
 PS Claim 12; Fig 266; 813pp; English.
 XX
 XX AAU12172-AAU12446 represent novel human secretory and transmembrane
 CC PRO polypeptides. The PRO polypeptides are useful to detect other
 CC PRO polypeptides, to link bioactive molecules to cells expressing
 CC PRO polypeptides, to modulate biological activities of cells expressing
 CC PRO polypeptides, and to detect the presence of mammalian lung, colon,
 CC breast, prostate, rectal, cervical or liver tumours by comparing PRO
 CC polypeptide expression in a cell sample to that in a control sample.
 CC Some of the 275 sequences are also useful to stimulate the release of
 CC tumour necrosis factor-alpha (TNF-alpha) from human blood, the
 CC proliferation or differentiation of chondrocytes, the proliferation or
 CC gene expression in pericyte cells, the release of proteoglycans from
 CC cartilage, the proliferation of inner ear utricular supporting cells or
 CC of T-lymphocytes, the release of a cytokine from peripheral blood
 CC monocytes (PBMCs), or the proliferation of endothelial cells. Some of
 CC the PRO polypeptides may modulate glucose or free fatty acid uptake by
 CC skeletal muscle cells or by adipocytes; or inhibit binding of A-peptide
 CC to factor VIIA. The PRO polypeptides can be used in assays to identify
 CC molecules involved in binding interactions. The polynucleotides encoding
 CC PRO polypeptides can be used to generate probes, antisense RNA/DNA,
 CC transgenic or knock out animals and can be used in gene therapy.
 CC
 XX
 SQ Sequence 251 AA;
 Query Match 100.0%; Score 1360; DB 22; Length 251;
 Best Local Similarity 100.0%; Pred. No. 7.5e-131;
 Matches 251; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MLAGRLRWALCSVCSMSVLRAYPNASPLGSSWGGLHLYTATARNYHLOIHNGH 60
 DB 1 MLAGRLRWALCSVCSMSVLRAYPNASPLGSSWGGLHLYTATARNYHLOIHNGH 60

CC example, they be used to treat disorders associated with decreased
 CC GENSER gene expression by rectifying mutations or deletions in a
 CC patient's genome that affect the activity of GENSER or by supplementing
 CC the patient's own production of GENSER polypeptides. Conversely,
 CC antisense nucleic acid molecules may be administered to down regulate
 CC GENSER expression by binding with the cells' own genes and preventing
 CC their expression. The sense and antisense nucleic acids may also be
 CC used as DNA probes in diagnostic assays to detect and quantitate the
 CC presence of similar nucleic acid sequences in samples, and hence to
 CC determine which patients may be in need of restorative therapy.
 CC The GENSER polypeptides may be used as antigens in the production of
 CC antibodies and in assays to identify modulators (agonists and
 CC antagonists) of GENSER polypeptide expression and activity. The
 CC present sequence is a GENSER polypeptide of the invention.

XX Sequence 251 AA;

Query Match 100.0%; Score 1360; DB 22; Length 251;

Best Local Similarity 100.0%; Pred. No. 7.5e-131; Mismatches 0; Indels 0; Gaps 0;

Matches 251; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGARLRLWVLCALCSVCSMSVLRAYPNASPLGSSWGGLHLTYATARNSYHLQIHNKGH 60

DB 1 MGARLRLWVLCALCSVCSMSVLRAYPNASPLGSSWGGLHLTYATARNSYHLQIHNKGH 60

QY 61 VDGAPHQTIYSALMIRSEDAQFVITGVMSRRYLQMDFRNIGFSGHYFDPENCRFOHOTL 120

DB 61 VDGAPHQTIYSALMIRSEDAQFVITGVMSRRYLQMDFRNIGFSGHYFDPENCRFOHOTL 120

QY 121 ENGVDYVHSPQYHFLVSLGRAKRAFLPGMNPYPYQFLSRNRIPLIHFTPIPRHRTS 180

DB 121 ENGVDYVHSPQYHFLVSLGRAKRAFLPGMNPYPYQFLSRNRIPLIHFTPIPRHRTS 180

QY 181 AEDDSERDPLNVLKPRARMTAPAPASCSQELPSAEDNSPMASDPLGVYRGVNTHAGGTG 240

DB 181 AEDDSERDPLNVLKPRARMTAPAPASCSQELPSAEDNSPMASDPLGVYRGVNTHAGGTG 240

QY 241 PEGCRPPAKFI 251

DB 241 PEGCRPPAKFI 251

RESULT 8

AAB65297

ID AAB65297 standard; Protein; 251 AA.

XX AAB65297;

DT 02-APR-2001 (first entry)

XX Human PRO9828 protein sequence SEQ ID NO:511.

DE Human; secreted and transmembrane protein; PRO; cytosolic;

KW cell death; cancer; chromosomal mapping; gene mapping; tissue typing;

KW diagnostic assay.

XX Homo sapiens.

OS WO200073454-A1.

XX 07-DEC-2000.

XX 30-MAR-2000; 2000MO-US08439.

XX 02-JUN-1999; 99MO-US12252.

XX 23-JUN-1999; 99US-0141037.

XX 07-JUL-1999; 99US-0143048.

XX 20-JUL-1999; 99US-0144758.

XX 26-JUL-1999; 99US-0145698.

XX 28-JUL-1999; 99US-0146222.

XX 17-AUG-1999; 99US-0149396.

XX 15-SEP-1999; 99MO-US21090.

XX 15-SEP-1999; 99MO-US21547.

PR 08-OCT-1999; 99US-0158663.

PR 30-NOV-1999; 99MO-US28313.

PR 01-DEC-1999; 99MO-US28301.

PR 16-DEC-1999; 99MO-US30095.

PR 20-DEC-1999; 99MO-US30911.

PR 05-JAN-2000; 2000MO-US00219.

PR 06-JAN-2000; 2000MO-US00376.

PR 11-FEB-2000; 2000MO-US03565.

PR 18-FEB-2000; 2000MO-US04341.

PR 22-FEB-2000; 2000MO-US04414.

PR 24-FEB-2000; 2000MO-US04914.

PR 24-FEB-2000; 2000MO-US05004.

PR 02-MAR-2000; 2000MO-US05841.

PR 15-MAR-2000; 2000MO-US06884.

PR 20-MAR-2000; 2000MO-US07377.

XX (GETH) GENENTECH INC.

XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL,

XX Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ,

XX Grimaldi CJ, Gurney AL, Kijavini IJ, Napier MA, Pan J, Paoni NF,

XX Roy MA, Stewart TA, Tamas D, Watande CK, Williams PM, Wood WI,

XX Zhang Z;

XX MPI; 2001-032160/04.

XX N-PDSB; AAF44266.

XX PRO polynucleotides used to produce polypeptides used to target

XX bioactive molecules such as toxins, radiolabels or antibodies, to

XX specific cells, to cause targeted cell death -

XX Claim 12; Fig 324; 935pp; English.

XX The present invention describes human secreted and transmembrane PRO

XX proteins. The PRO proteins have cytosolic activity. The PRO proteins

XX can be used for targeted delivery of bioactive molecules, such as

XX toxins, radiolabels or antibodies, that cause cell death. PRO nucleotide

XX sequences, and their fragments, can be used as hybridisation probes, in

XX and DNA. They may also be used to produce transgenic animals which are

XX used to develop and screen therapeutically useful reagents. The PRO

XX nucleotide and protein sequence can be used for tissue typing and in

XX treating cancer. Anti-PRO antibodies can be used in diagnostic assays.

XX AAF44270 to AAF44470 represent PCR primers and hybridisation probes used

XX in the isolation of human PRO sequences. AAF44087 to AAF44269 and

XX AAB65154 to AAB65300 represent human PRO polynucleotide and protein

XX sequences given in the exemplification of the present invention.

XX Sequence 251 AA;

Query Match 100.0%; Score 1360; DB 22; Length 251;

Best Local Similarity 100.0%; Pred. No. 7.5e-131; Mismatches 0; Indels 0; Gaps 0;

Matches 251; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGARLRLWVLCALCSVCSMSVLRAYPNASPLGSSWGGLHLTYATARNSYHLQIHNKGH 60

DB 1 MGARLRLWVLCALCSVCSMSVLRAYPNASPLGSSWGGLHLTYATARNSYHLQIHNKGH 60

QY 61 VDGAPHQTIYSALMIRSEDAQFVITGVMSRRYLQMDFRNIGFSGHYFDPENCRFOHOTL 120

DB 61 VDGAPHQTIYSALMIRSEDAQFVITGVMSRRYLQMDFRNIGFSGHYFDPENCRFOHOTL 120

QY 121 ENGVDYVHSPQYHFLVSLGRAKRAFLPGMNPYPYQFLSRNRIPLIHFTPIPRHRTS 180

DB 121 ENGVDYVHSPQYHFLVSLGRAKRAFLPGMNPYPYQFLSRNRIPLIHFTPIPRHRTS 180

QY 181 AEDDSERDPLNVLKPRARMTAPAPASCSQELPSAEDNSPMASDPLGVYRGVNTHAGGTG 240

DB 181 AEDDSERDPLNVLKPRARMTAPAPASCSQELPSAEDNSPMASDPLGVYRGVNTHAGGTG 240

QY 241 PEGCRPPAKFI 251

DB 241 PEGCRPPAKFI 251

RESULT 9

AB877581
ID ABB77581 standard; Protein; 251 AA.
XX
XX ABB77581;
AC
XX
XX 26-AUG-2002 (first entry)
DT
XX
XX Human FGF23 protein SEQ ID NO 2.
DE
XX
XX Human; FGF23; haemostatic; hyperphosphataemia; gene therapy.
KW
XX
XX Homo sapiens.
OS
XX
XX WO200252009-A1.
PN
XX
XX 04-JUL-2002.
PD
XX
XX 26-DEC-2001; 2001WO-JP11482.
PF
XX
XX 26-DEC-2000; 2000JP-0396316.
PR
XX
XX 29-MAY-2001; 2001JP-0161370.
XX
XX (CHUS) CHUGAI SEIYAKU KK.
XX
XX Itoh H, Fukushima N, Saito H, Kusano K;
PI
XX
XX WPI; 2002-50891/54.
DR
XX
XX N-PSDB; ABB81575.
PT
XX
XX Human FGF23 protein mutant for lowering blood phosphorus level,
PT
XX
XX applicable in gene therapy remedies for hyperphosphatemia -
PS
XX
XX Claim 1: Page 46-48; 64pp; Japanese.

The invention relates to a DNA (ABB81575) encoding a protein (ABB77581) CC
CC FGF23 and mutants FGF23 comprising an amino acid substitution of arginine CC
CC at position 176 to glutamine and/or position 179 to glutamine or CC
CC tryptophan. The mutants are generated by introducing the following base CC
CC changes in the nucleic acid sequence: R176Q mutant is generated by CC
CC G527A; R179Q is generated by G536A; and R179W is generated by C535T. The CC
CC protein and encoding DNA are applicable in remedies for CC
CC hyperphosphataemia, including gene therapy.

Sequence 251 AA;
SQ

Query Match 100.0%; Score 1360; DB 23; Length 251;
Best Local Similarity 100.0%; Pred. No. 7, 5e-131;
Matches 251; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGARLRWVWALCVCSWVLAAYPAASPLGSSWGLIHLTYTARKNSYHQLIHNKH 60
DB 1 MGARLRWVWALCVCSWVLAAYPAASPLGSSWGLIHLTYTARKNSYHQLIHNKH 60
QY 61 VDGAPHQITYSALMIRSEDAQFVIVGWSRRYLQMDFRNIGSHYFEDENCRFQHQT 120
DB 61 VDGAPHQITYSALMIRSEDAQFVIVGWSRRYLQMDFRNIGSHYFEDENCRFQHQT 120
QY 121 ENGVDYVHSPOYHFLVSLGAKRAFLPGMNPPEYQSOLFSTRNEIPLIHFTPIPRHTRS 180
DB 121 ENGVDYVHSPOYHFLVSLGAKRAFLPGMNPPEYQSOLFSTRNEIPLIHFTPIPRHTRS 180
QY 121 ENGVDYVHSPOYHFLVSLGAKRAFLPGMNPPEYQSOLFSTRNEIPLIHFTPIPRHTRS 180
DB 121 ENGVDYVHSPOYHFLVSLGAKRAFLPGMNPPEYQSOLFSTRNEIPLIHFTPIPRHTRS 180
QY 181 AEDDSRRDPLNVLKPRARMTPADASCSQELPSAEDNSPMASDPLGVVGRGVNTHAGTGS 240
DB 181 AEDDSRRDPLNVLKPRARMTPADASCSQELPSAEDNSPMASDPLGVVGRGVNTHAGTGS 240
QY 241 PEGCRPEFAKFI 251
DB 241 PEGCRPEFAKFI 251

RESULT 10

AAU79355
ID AAU79355 standard; Protein; 251 AA.
XX
XX AAU79355;
AC
XX
XX 02-JUL-2002 (first entry)
DT
XX
XX Human fibroblast growth factor-23 (FGF23).
DE
XX
XX Fibroblast growth factor 23; FGF23; hypophosphataemic disorder;
KW
XX
XX autosomal dominant hypophosphataemic rickets; ADHR; fibrous dysplasia;
KW
XX
XX X-linked hypophosphataemic rickets; XLH; tumour induced osteomalacia;
KW
XX
XX TIO; hereditary hypophosphataemic rickets with hypocalciuria; HHRH;
KW
XX
XX hypophosphataemic bone disease; HBD; epidermal nevus syndrome;
KW
XX
XX nephrolithiasis; hyperphosphataemic disorder; mild renal insufficiency;
KW
XX
XX tumoural calcinosis; osteoporosis; dermatomyositis; human.
OS
XX
XX Homo sapiens.

Key Location/Qualifiers
FH Peptide 1..24
FT /label= Signal_peptide
FT Protein 25
FT /label= Mature_FGF23
FT /note= "Fibroblast growth factor 23"
FT 176..179
FT /label= Protease_cleavage_site
XX
XX WO200208271-A1.
XX
XX 31-JAN-2002.
XX
XX 10-JUL-2001; 2001WO-US21738.
XX
XX 19-JUL-2000; 2000US-219137P.
XX
XX (ADRE-) ADVANCED RES & TECHNOLOGY INST.
XX
XX (UWMO-) UNIV WUENCHEN MAXIMILIANS LUDWIG.
XX
XX Econe M, White K, Strom TM, Meltinger T;
XX
XX WPI; 2002-329399/36.
XX
XX N-PSDB; ABB48318.
DR
XX
XX Novel fibroblast growth factor 23, and polynucleotides encoding the
PT
XX
XX polypeptides, useful for treating hyperphosphataemic disorders such as
PT
XX
XX mild renal insufficiency or tumoural calcinosis, or coronary artery
PS
XX
XX disease -
PS
XX
XX Claim 3; Fig 9; 130pp; English.

The invention describes an isolated polypeptide (I) comprising a CC
CC fibroblast growth factor 23 (FGF23) polypeptide or its mutant, variant, CC
CC homologue or fragment. (I) is useful for treatment of a hypophosphataemic CC
CC disorder such as autosomal dominant hypophosphataemic rickets (ADHR), CC
CC X-linked hypophosphataemic rickets (XLH), hereditary hypophosphataemic CC
CC rickets with hypocalciuria (HHRH), hypophosphataemic bone disease (HBD), CC
CC epidermal nevus syndrome, fibrous dysplasia tumour induced osteomalacia CC
CC (TIO), and nephrolithiasis. (I) can also be used in treatment of a CC
CC hypophosphataemic disorder such as mild renal insufficiency and tumoural CC
CC calcinosis. Osteoporosis, conditions (e.g., dermatomyositis) involving CC
CC deposition of calcium and phosphate in the arteries or soft tissues of CC
CC mammal, coronary artery disease may also be treated using methods CC
CC described in the invention. Preferably, the nucleic acid or the CC
CC polypeptide comprises a mutation that confers increased stability on CC
CC FGF23 polypeptide. The polynucleotide encoding (I) can be used in gene CC
CC therapy to treat diseased individuals. This is the amino acid sequence CC
CC of the novel human fibroblast growth factor 23 (FGF23) studied in the CC
CC invention.

Sequence 251 AA;
SQ

Query Match 100.0%; Score 1360; DB 23; Length 251;
 Best Local Similarity 100.0%; Pred. No. 7.5e-131;
 Matches 251; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGARLRLWVCAICVCSMSVLRAYPNASPLGSSWGGLHLVTATARNSTYHLQIHKNKH 60
 DB 1 MLGARLRLWVCAICVCSMSVLRAYPNASPLGSSWGGLHLVTATARNSTYHLQIHKNKH 60
 QY 61 VDGAPHQTIYSALMIRSEDAGFVITGVMSRRYLQMDFRGNIFGSHYPDPENCRFQHOTL 120
 DB 61 VDGAPHQTIYSALMIRSEDAGFVITGVMSRRYLQMDFRGNIFGSHYPDPENCRFQHOTL 120
 QY 121 ENGVDVHSPQYHFLVSLGAKRAFLPGMNPYPYQFLSRNRPILHFTPTIPRRHTRS 180
 DB 121 ENGVDVHSPQYHFLVSLGAKRAFLPGMNPYPYQFLSRNRPILHFTPTIPRRHTRS 180
 QY 181 AEDSERDPLNVLKPRARMTAPAPASCQELPSAEDNSPMASDPLGVVGRGVNTHAGTGT 240
 DB 181 AEDSERDPLNVLKPRARMTAPAPASCQELPSAEDNSPMASDPLGVVGRGVNTHAGTGT 240
 QY 241 PEGCRPPAKFI 251
 DB 241 PEGCRPPAKFI 251

RESULT 11
 ABB06940
 ID ABB06940 standard; Protein; 251 AA.
 AC ABB06940;
 DT 19-JUN-2002 (first entry)
 DE Human OSTF11 protein sequence SEQ ID NO:2.
 XX
 XX OSTF11; phosphoric acid metabolism; calcium metabolism; calcification;
 KM vitamin D metabolism; hypophosphataemia; phosphate transport; cytosolic;
 KM chromosome 12p13; osteopathic; nephrotropic; antihyperphosphataemic;
 KM phosphorus transport; skeletal disorder; bone cancer; osteoporosis;
 KM bone formation abnormality; vitamin D resistance; Paget's disease;
 KM bone calcium deficiency; kidney disorder; kidney function deficiency;
 KM renal phosphate leakage; urinary tubule acidosis; Fanconi's disease.
 OS Homo sapiens.
 XX
 PN WO200214504-A1.
 XX
 PD 21-FEB-2002.
 XX
 PF 10-AUG-2001; 2001WO-JP06944.
 XX
 PR 11-AUG-2000; 2000JP-0245144.
 PR 21-SEP-2000; 2000JP-0287684.
 PR 22-DEC-2000; 2000JP-0391077.
 PR 19-APR-2001; 2001JP-0121527.
 XX
 PA (KIRI) KIRIN BEER KK.
 PI Yamashita T, Shimada T, Mizutani S, Fukumoto S;
 DR MPI; 2002-227350/28.
 DR N-PSDB; ABL50577.
 XX
 PT Polypeptides useful for regulating phosphate transport and calcium
 PT metabolism and DNA encoding them for treatment of phosphate and calcium
 PT metabolism disorders, including bone formation abnormalities and kidney
 PT diseases
 XX
 PS Claim 1; Page 158-159; 221pp; Japanese.
 CC The present invention describes DNA encoding a polypeptide having the
 CC activities of inhibiting hypophosphataemia, phosphate transport and
 CC calcification, and regulating vitamin D metabolism in vivo. The

CC polypeptide is of human origin (designated OSTF11) which is localised to
 CC chromosome 12p13, or is derived from this by addition, deletion and/or
 CC substitution of one or more amino acid residues. OSTF11 has osteopathic,
 CC nephrotropic, antihyperphosphataemic and cytosolic activities. The
 CC OSTF11 polypeptide regulates phosphorus transport and calcium metabolism.
 CC OSTF11 sequences can be used for the treatment and diagnosis of skeletal
 CC disorders such as bone cancer, bone formation abnormalities, vitamin D
 CC resistance, osteoporosis, Paget's disease and bone calcium deficiency;
 CC kidney disorders such as kidney function deficiency, renal phosphate
 CC leakage, urinary tubule acidosis and Fanconi's disease. The present
 CC sequence is used in the exemplification of the present invention.

SQ Sequence 251 AA;

Query Match 100.0%; Score 1360; DB 23; Length 251;
 Best Local Similarity 100.0%; Pred. No. 7.5e-131;
 Matches 251; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGARLRLWVCAICVCSMSVLRAYPNASPLGSSWGGLHLVTATARNSTYHLQIHKNKH 60
 DB 1 MLGARLRLWVCAICVCSMSVLRAYPNASPLGSSWGGLHLVTATARNSTYHLQIHKNKH 60
 QY 61 VDGAPHQTIYSALMIRSEDAGFVITGVMSRRYLQMDFRGNIFGSHYPDPENCRFQHOTL 120
 DB 61 VDGAPHQTIYSALMIRSEDAGFVITGVMSRRYLQMDFRGNIFGSHYPDPENCRFQHOTL 120
 QY 121 ENGVDVHSPQYHFLVSLGAKRAFLPGMNPYPYQFLSRNRPILHFTPTIPRRHTRS 180
 DB 121 ENGVDVHSPQYHFLVSLGAKRAFLPGMNPYPYQFLSRNRPILHFTPTIPRRHTRS 180
 QY 181 AEDSERDPLNVLKPRARMTAPAPASCQELPSAEDNSPMASDPLGVVGRGVNTHAGTGT 240
 DB 181 AEDSERDPLNVLKPRARMTAPAPASCQELPSAEDNSPMASDPLGVVGRGVNTHAGTGT 240
 QY 241 PEGCRPPAKFI 251
 DB 241 PEGCRPPAKFI 251

RESULT 12
 ABB08352
 ID ABB08352 standard; Protein; 251 AA.
 AC ABB08352;
 DT 18-JUN-2002 (first entry)
 DE Human zFGF12 amino acid sequence.
 XX
 XX zFGF12; human; fibroblast growth factor; FGF; vulnerrary; chemotherapy;
 KM lung injury; epithelial cell; mesenchymal cell.
 XX
 OS Homo sapiens.
 XX
 FH Key
 FT Peptide
 FT 1..24 Location/Qualifiers
 FT /label= secretory_signal_sequence
 FT 2..51
 FT /label= beta-strand_1
 FT 3..59
 FT /label= beta-strand_2
 FT 4..71
 FT /label= beta-strand_3
 FT 5..81
 FT /label= beta-strand_4
 FT 6..92
 FT /label= beta-strand_5
 FT 7..99
 FT /label= beta-strand_6
 FT 8..113
 FT /label= beta-strand_7
 FT 9..123
 FT /label= beta-strand_8

PS Example 2; Page -: 64pp; Japanese.
 XX
 CC The invention relates to a DNA (ABN81575) encoding a protein (AB877581)
 CC FGFP23 and mutants FGFP23 comprising an amino acid substitution of arginine
 CC at position 176 to glutamine and/or position 179 to glutamine or
 CC tryptophan. The mutants are generated by introducing the following base
 CC changes in the nucleic acid sequence: R176Q mutant is generated by
 CC G527A; R179Q is generated by G536A; and R179W is generated by C535T. The
 CC protein and encoding DNA are applicable in remedies for
 CC hyperphosphataemia, including gene therapy. The present sequence is that
 CC of a FGFP23 mutant of the invention.
 CC Note: The present sequence is not shown in the specification but is
 CC derived from the wildtype human FGFP23 sequence given as SEQ ID NO 2 in
 CC the sequence listing (AB877581).
 CC
 XX Sequence 251 AA;
 SQ
 Query Match 99.7%; Score 1356; DB 23; Length 251;
 Best Local Similarity 99.6%; Pred. No. 1.9e-130;
 Matches 250; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MCGARLRLWTCALCSVCSMSVLRAYPNASPLLGSSWGLIHLTYTARNSTYHLQIHNGH 60
 DB 1 MCGARLRLWTCALCSVCSMSVLRAYPNASPLLGSSWGLIHLTYTARNSTYHLQIHNGH 60
 QY 61 VDGAPHOTIYSALMIRSEDAFGVITGVMSRRYLCMDFRNIGFSHYFDPENCRFOHOTL 120
 DB 61 VDGAPHOTIYSALMIRSEDAFGVITGVMSRRYLCMDFRNIGFSHYFDPENCRFOHOTL 120
 QY 121 ENGVDVHSPQYHFLVSLGAKRAFLPGMNPFPYSQPLSRNEIPLIHFTPIPRRHTRS 180
 DB 121 ENGVDVHSPQYHFLVSLGAKRAFLPGMNPFPYSQPLSRNEIPLIHFTPIPRRHTRS 180
 QY 181 AEDDSERDPLNVLKPRARMTAPAPASCSQELPSAEDNSPMASDPLGVVGRGVNTHAGTG 240
 DB 181 AEDDSERDPLNVLKPRARMTAPAPASCSQELPSAEDNSPMASDPLGVVGRGVNTHAGTG 240
 QY 241 PEGCRPFAKFI 251
 DB 241 PEGCRPFAKFI 251
 RESULT 14
 AB877583
 ID AB877583 standard; Protein; 251 AA.
 XX
 AC AB877583;
 XX
 DT 28-AUG-2002 (first entry)
 XX
 DE Human FGFP23 mutant R179Q.
 XX
 KW Human; FGFP23; haemostatic; hyperphosphataemia; gene therapy; mutant;
 KW mutcin.
 XX
 OS Homo sapiens.
 OS Synthetic.
 OS
 FT Key Location/Qualifiers
 FT Misc-difference 179 /note="Wildtype Arg substituted by Gln"
 XX
 PN WO200252009-A1.
 XX
 PD 04-JUL-2002.
 XX
 PF 26-DEC-2001; 2001WO-JP11482.
 XX
 PR 26-DEC-2000; 2000JP-0396316.
 XX
 PR 29-MAY-2001; 2001JP-0161370.
 XX
 PA (CHUS) CHUGAI SEIYAKU KK.
 XX

PI Itoh H, Fukushima N, Saito H, Kusano K;
 XX
 DR WPI; 2002-508891/54.
 XX
 PT Human FGFP23 protein mutant for lowering blood phosphorus level,
 PT applicable in gene therapy remedies for hyperphosphataemia -
 XX
 PS Example 2; Page -: 64pp; Japanese.
 XX
 CC The invention relates to a DNA (ABN81575) encoding a protein (AB877581)
 CC FGFP23 and mutants FGFP23 comprising an amino acid substitution of arginine
 CC at position 176 to glutamine and/or position 179 to glutamine or
 CC tryptophan. The mutants are generated by introducing the following base
 CC changes in the nucleic acid sequence: R176Q mutant is generated by
 CC G527A; R179Q is generated by G536A; and R179W is generated by C535T. The
 CC protein and encoding DNA are applicable in remedies for
 CC hyperphosphataemia, including gene therapy. The present sequence is that
 CC of a FGFP23 mutant of the invention.
 CC Note: The present sequence is not shown in the specification but is
 CC derived from the wildtype human FGFP23 sequence given as SEQ ID NO 2 in
 CC the sequence listing (AB877581).
 CC
 XX Sequence 251 AA;
 SQ
 Query Match 99.7%; Score 1356; DB 23; Length 251;
 Best Local Similarity 99.6%; Pred. No. 1.9e-130;
 Matches 250; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MCGARLRLWTCALCSVCSMSVLRAYPNASPLLGSSWGLIHLTYTARNSTYHLQIHNGH 60
 DB 1 MCGARLRLWTCALCSVCSMSVLRAYPNASPLLGSSWGLIHLTYTARNSTYHLQIHNGH 60
 QY 61 VDGAPHOTIYSALMIRSEDAFGVITGVMSRRYLCMDFRNIGFSHYFDPENCRFOHOTL 120
 DB 61 VDGAPHOTIYSALMIRSEDAFGVITGVMSRRYLCMDFRNIGFSHYFDPENCRFOHOTL 120
 QY 121 ENGVDVHSPQYHFLVSLGAKRAFLPGMNPFPYSQPLSRNEIPLIHFTPIPRRHTRS 180
 DB 121 ENGVDVHSPQYHFLVSLGAKRAFLPGMNPFPYSQPLSRNEIPLIHFTPIPRRHTRS 180
 QY 181 AEDDSERDPLNVLKPRARMTAPAPASCSQELPSAEDNSPMASDPLGVVGRGVNTHAGTG 240
 DB 181 AEDDSERDPLNVLKPRARMTAPAPASCSQELPSAEDNSPMASDPLGVVGRGVNTHAGTG 240
 QY 241 PEGCRPFAKFI 251
 DB 241 PEGCRPFAKFI 251
 RESULT 15
 AAU79379
 ID AAU79379 standard; Protein; 251 AA.
 XX
 AC AAU79379;
 XX
 DT 02-JUL-2002 (first entry)
 XX
 DE Human fibroblast growth factor-23 (FGF23), R176Q mutant.
 XX
 KW Fibroblast growth factor 23; FGF23; hypophosphataemic disorder;
 KW autosomal dominant hypophosphataemic rickets; ADHR; fibrous dysplasia;
 KW X-linked hypophosphataemic rickets; XLH; tumour induced osteomalacia;
 KW TIO; hereditary hypophosphataemic rickets with hypercalciuria; HHRH;
 KW hypophosphataemic bone disease; HBD; epidermal nevus syndrome;
 KW nephrocalcinosis; hyperphosphataemic disorder; mild renal insufficiency;
 KW tumoral calcinosis; osteoporosis; dermatomyositis; human; mutant;
 KW mutcin.
 XX
 OS Homo sapiens.
 OS Synthetic.
 OS
 FT Key Location/Qualifiers
 FT Misc-difference 176

Search completed: May 23, 2003, 07:43:14

Job time : 77 secs

/note= "Wild type Arg substituted by Gln"

WT 00200208271-A1.

31-JAN-2002.

10-JUL-2001; 2001WO-US21738.

19-JUL-2000; 2000US-219137P.

(ADRE-) ADVANCED RES & TECHNOLOGY INST.
(UYMU-) UNIV MUEBCHEN MAXIMILIANS LUDWIG.

Econs M, White K, Strom TM, Meltinger T;

WPI; 2002-329399/36.

Novel fibroblast growth factor 23, and polynucleotides encoding the
polypeptides, useful for treating hyperphosphataemic disorders such as
mild renal insufficiency or tumoural calcinosis, or coronary artery
disease -

Example 1; Page -; 130pp; English.

The invention describes an isolated polypeptide (I) comprising a
fibroblast growth factor 23 (FGF23) polypeptide or its mutant, variant,
homologue or fragment. (I) is useful for treatment of a hypophosphataemic
disorder such as autosomal dominant hypophosphataemic rickets (ADHR),
X-linked hypophosphataemic rickets (XLH), hereditary hypophosphataemic
rickets with hypercalciuria (HHRH), hypophosphataemic bone disease (HBD),
epidermal nevus syndrome, fibrous dysplasia tumour induced osteomalacia
(FIO), and nephrolithiasis. (I) can also be used in treatment of a
hyperphosphataemic disorder such as mild renal insufficiency and tumoural
calcinosis. Osteoporosis, conditions (e.g., dermatomyositis) involving
deposition of calcium and phosphate in the arteries or soft tissues of
mammal, coronary artery disease may also be treated using methods
described in the invention. Preferably, the nucleic acid or the
polypeptide comprises a mutation that confers increased stability on
FGF23 polypeptide. The polynucleotide encoding (I) can be used in gene
therapy to treat diseased individuals. This sequence represents a mutant
of the novel human fibroblast growth factor 23 (FGF23) used to study
CC residues in the predicted protease cleavage site.
CC Note: This sequence does not appear in the specification but has been
CC created from the wild type sequence shown in AAU79355 using information
CC given in example 1 of the invention.

Sequence 251 AA;

Query Match 99.7%; Score 1356; DB 23; Length 251;

Best Local Similarity 99.6%; Pred. No. 1.9e-130;
Matches 250; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY	1	MLGARLRIMVCAICGSCMSVLRAPNAPSLIGSSWGLIHLTYTARNSTHLQIKNGH	60
DB	1	MLGARLRIMVCAICGSCMSVLRAPNAPSLIGSSWGLIHLTYTARNSTHLQIKNGH	60
QY	61	VDGAPHOTIYALMIRSDAGFVITGVMSRRYLQMDFRGNIFGSHYDPENCRFOHOTL	120
DB	61	VDGAPHOTIYALMIRSDAGFVITGVMSRRYLQMDFRGNIFGSHYDPENCRFOHOTL	120
QY	121	ENGDVYHSPQYHFLVLSIGRAKRAFLPGMNPFPYSQFLSRNREIPLIHNTPIPRHTRS	180
DB	121	ENGDVYHSPQYHFLVLSIGRAKRAFLPGMNPFPYSQFLSRNREIPLIHNTPIPRHTRS	180
QY	181	AEDSDERDPLAVLKPRAPMTAPAPSCSOELPSAEDNSPMAADPLGAVRGRVNTAGGTG	240
DB	181	AEDSDERDPLAVLKPRAPMTAPAPSCSOELPSAEDNSPMAADPLGAVRGRVNTAGGTG	240
QY	241	PEGCRPPAKFI 251	
DB	241	PEGCRPPAKFI 251	